ORDER NO. AD9002026C8

Service Manual

Amplifier

Stereo Integrated Amplifier

SU-X101/SU-X301

Color

(K)...Black Type

Area

Country Code	Area	Color
(E)	Continental Europe	(K)
(EB)	Great Britain	(K)
(EG)	F.R.Germany & Italy	(K)
(GC)	Asia, Latin America, Middle Near East and Africa	(K)
(GN)	Oceania	(K)

SPECIFICATIONS

(DIN 45 500)

■ AMPLIFIER SECTION

DIN power output	2×40 W (8Ω) (SU-X101)
1 kHz THD: 1 %	2×50 W (8Ω) (SU-X301)
Total harmonic distortion	
rated power at 1 kHz	1 % (8 Ω)
Harmonic distortion	
half power at 1 kHz	0.03 % (8Ω)
Residual hum and noise	0.5 mV
Damping factor	30 (8 Ω)
Input sensitivity and impedance	
PHONO	3 mV/47 kΩ
TUNER, AUX, TAPE	200 mV/22 kΩ
CD	300 mV/15 kΩ
Maximum input voltage (1 kHz, RMS)	
PHONO	120 mV
S/N (rated power 8 Ω)	
PHONO	73 dB (IHF, A: 79 dB)
TUNER, CD, AUX, TAPE	84 dB (IHF, A: 83 dB)
Frequency response	
PHONO	RIAA standard curve ±0.8 dB (30 Hz~15 kHz)
TUNER, CD, AUX, TAPE	15 Hz~50 kHz (−3 dB)
Tone controls	
BASS	50 Hz, +10 dB~−10 dB
TREBLE	20 kHz, +10 dB~−10 dB

Muting	−20 dB
Super bass	70 Hz, 0~+10 dB
Output voltage	
TAPE REC OUT	200 mV
Channel balance, AUX 250 Hz~6,300 Hz	±1.0 dB
Channel separation, AUX 1 kHz	55 dB
Headphones output level and impedance	473 mV/330 Ω
Load impedance	
MAIN	8 Ω~16 Ω
SURROUND	8 Ω~16 Ω

■ GENERAL

Power consumption	330 W
Power supply	
For Great Britain and Oceania:	AC 50 Hz/60 Hz, 240 V
For continental Europe, F.R. Germany and Italy:	AC 50 Hz/60 Hz, 220 V
For others:	AC 50 Hz/60 Hz, 110 V/127 V/220 V/240 V
Dimensions (W×H×D)	360×106.2×304 mm (14-3/16″×4-3/16″×12″)
Weight	5.3 kg (11.7 lb.)

Note:
Total harmonic distortion is measured by the digital spectrum analyzer.

Technics

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Central P.O. Box 288, Osaka 530-91, Japan

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■ BEFORE REPAIR

(1) Turn off the power supply. Using a 10Ω, 5 W resistor connect both ends of power supply capacitors (C711, C712, 3300 μF) in order to discharge the voltage.

(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50 Hz/60 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 110 V/127 V/220 V/240 V.

Power supply voltage	AC 110 V	AC 127 V	AC 220 V	AC 240 V
Consumed current 50 Hz	100~500 mA	70~470 mA	50~250 mA	40~240 mA
Consumed current 60 Hz	97~476 mA	68~457 mA	49~244 mA	39~236 mA

■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:
*No sound is heard when the power is switched ON.
*Sound stops during a performance.
The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlined below:

1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

■ ACCESSORIES

●AC power supply cord 1
Configuration of AC power supply cord differs according to area.

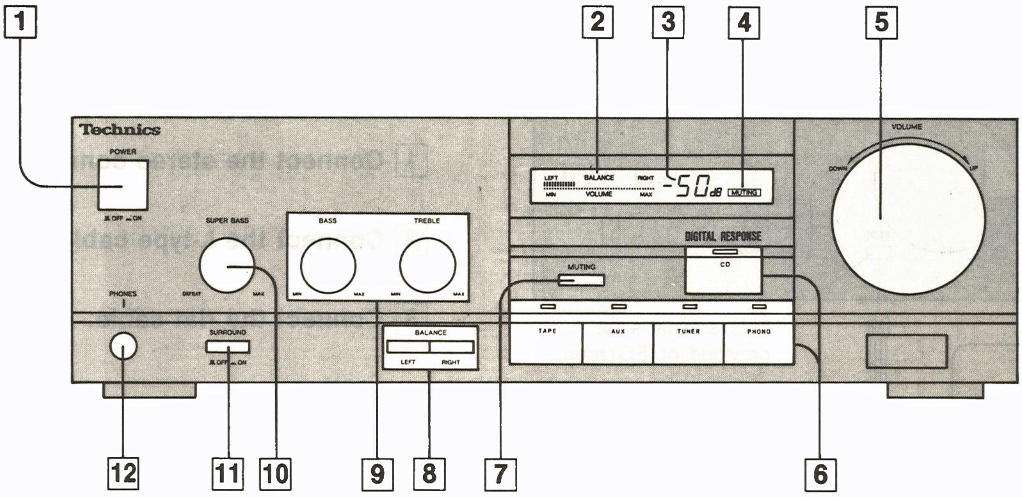
SJA173 ....For (GN) area only.
SJA188 ....For (EB) area only.
RJA0004 ....For (GC) area only.
SFDAC05E03 ....For others.

●Attachment AC plug 1

SJP9215...For (GC) area only

■ LOCATION OF CONTROLS

●Front panel


1
2
3
4
5
Technics
POWER
OFF ON
SUPER BASS
DEFEAT
MAX
BASS
TREBLE
MIN
MAX
PHONES
SURROUND
OFF ON
BALANCE
LEFT
RIGHT
LEFT
BALANCE
RIGHT
MIN
VOLUME
MAX
-50dB
MUTING
DIGITAL RESPONSE
CD
MUTING
TAPE
AUX
TUNER
PHONO
VOLUME
DOWN
UP
12
11
10
9
8
7
6

1 **Power switch (POWER)**

2 **Volume level/balance indicator (BALANCE/VOLUME)**

3 **Volume-level indicator**

4 **Muting indicator (MUTING)**

5 **Volume control (VOLUME)**

6 **Input selectors/indicators**

7 **Audio muting switch (MUTING)**

8 **Balance controls (BALANCE)**

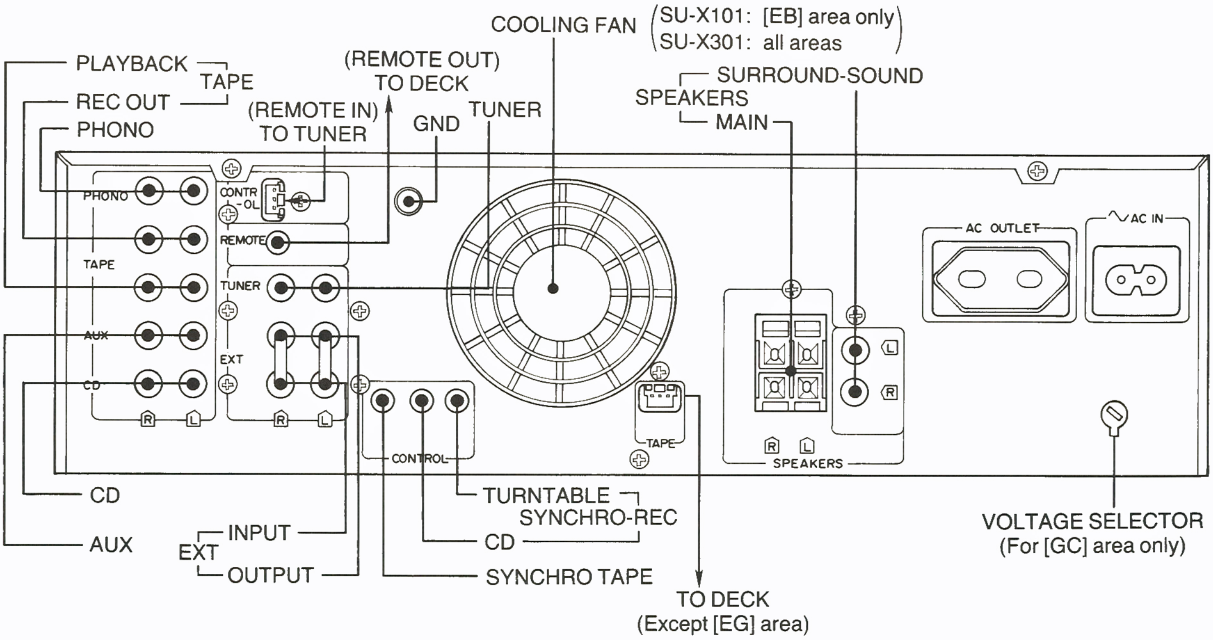
9 **Tone controls (BASS/TREBLE)**

10 **Super bass control (SUPER BASS)**

11 **Surround-sound switch (SURROUND)**

12 **Headphones jack (PHONES)**

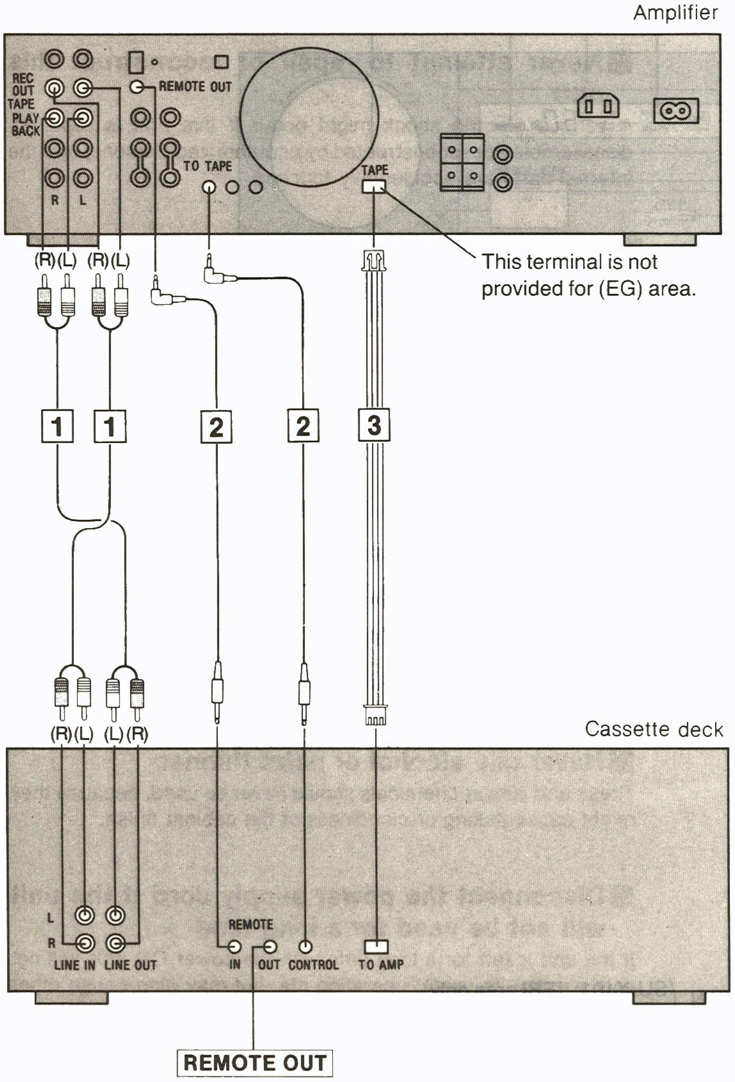
●Rear panel


COOLING FAN
(SU-X101: [EB] area only
SU-X301: all areas)
PLAYBACK
TAPE
REC OUT
PHONO
(REMOTE OUT)
TO DECK
(REMOTE IN)
TO TUNER
GND
TUNER
SURROUND-SOUND
SPEAKERS
MAIN
PHONO
CONTROL
REMOTE
TAPE
TUNER
AUX
EXT
CD
R
L
R
L
CONTROL
TAPE
SPEAKERS
R
L
L
R
AC OUTLET
AC IN
CD
AUX
EXT
INPUT
OUTPUT
TURNTABLE
SYNCHRO-REC
CD
SYNCHRO TAPE
TO DECK
(Except [EG] area)
VOLTAGE SELECTOR
(For [GC] area only)

*Phono input capacitance is about 270 pF for EG area (about 100 pF for other areas).

■ CONNECTIONS

To connect the amplifier with the cassette deck


Amplifier
REC OUT
TAPE PLAY BACK
R
L
REMOTE OUT
TO TAPE
TAPE
(R)(L) (R)(L)
1
1
2
2
3
(R)(L) (L)(R)
Cassette deck
L
R
LINE IN
LINE OUT
REMOTE
IN
OUT
CONTROL
TO AMP
REMOTE OUT

This terminal is not provided for (EG) area.

Make connections in the numbered sequence by using the included cables.

1 Connect the stereo connection cables.

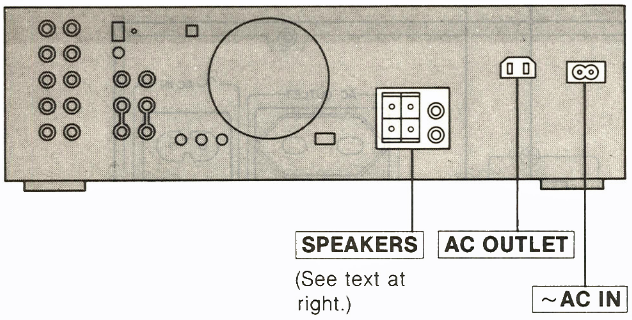
2 Connect the L-type cables.

3 Connect the flat cable.

REMOTE OUT

Connect the L-type cable (not included) to the "REMOTE INPUT" terminal of the graphic equalizer.

Note:
If the unit is not to be connected with the graphic equalizer, connect the L-type cable (included with the compact disc player) to the "REMOTE IN" terminal of the compact disc player.


SPEAKERS
AC OUTLET
~AC IN

(See text at right.)

AC outlet ("AC OUTLET")

Do not connect video equipment (such as a TV, etc.) to the AC outlet of this unit. (This outlet is intended for audio equipment.) Do not exceed the indicated power ratings when connecting to this outlet.

"SWITCHED" outlet:

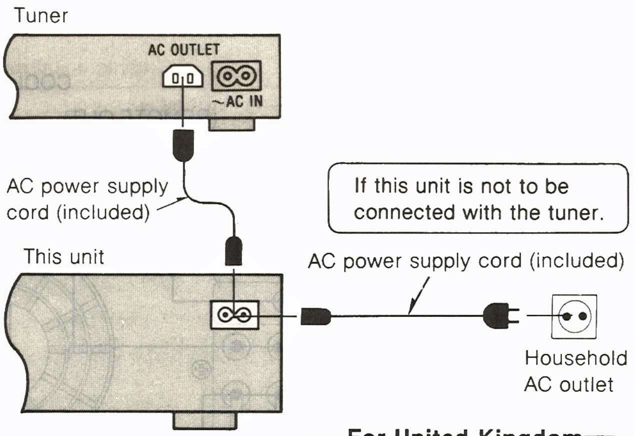
Power is controlled by the power switch. Audio equipment rated up to 60 W can be connected here.

Note:
The configuration of the AC outlet differs according to area.

AC power supply cord

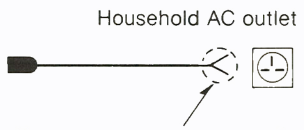
Connect the AC power supply cord (included) after all other cables and cords are connected.

Note:
Configuration of the AC outlet and AC power supply cord differ according to area.


Tuner
AC OUTLET
~AC IN
AC power supply cord (included)
This unit
AC power supply cord (included)
Household AC outlet

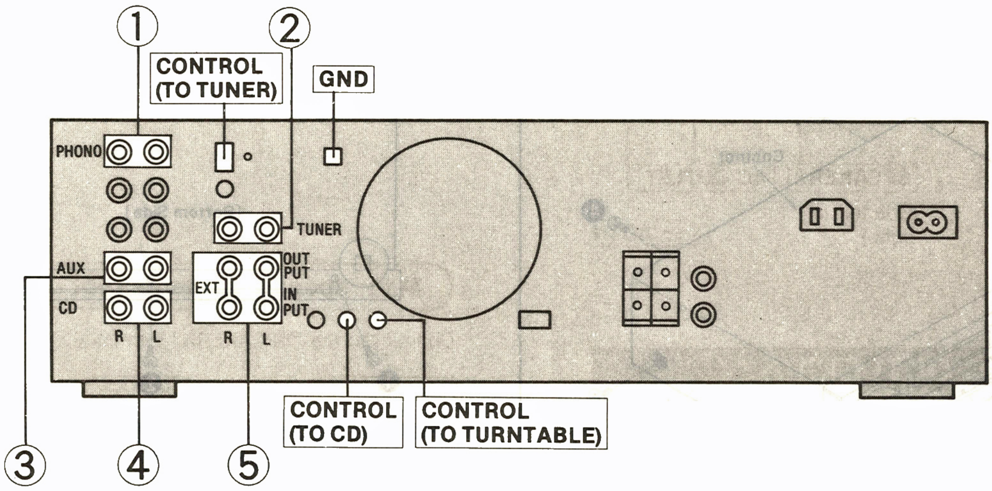
If this unit is not to be connected with the tuner.

For United Kingdom


Household AC outlet

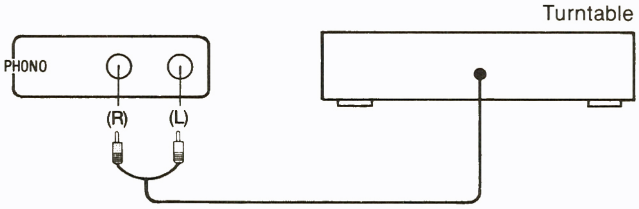
Fit a suitable plug to the AC power supply cord.

To connect the amplifier with other units


①
②
CONTROL (TO TUNER)
GND
PHONO
TUNER
AUX
CD
EXT
OUT PUT
IN PUT
R
L
R
L
CONTROL (TO CD)
CONTROL (TO TURNTABLE)
③
④
⑤

① “PHONO” terminals

Connect a turntable.


Turntable
PHONO
(R)
(L)

■ “GND” terminal of the amplifier

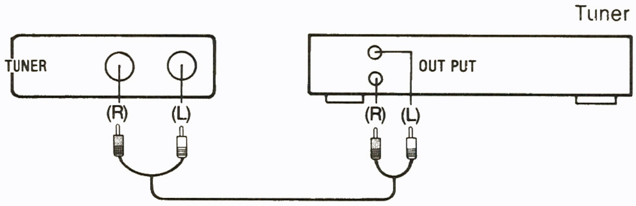
This terminal is for use with a turntable which has a ground wire.

■ “CONTROL (TO TURNTABLE)” terminal

This terminal is used to connect a Technics turntable with the remote-control terminal.

② “TUNER” terminals

Connect a tuner.

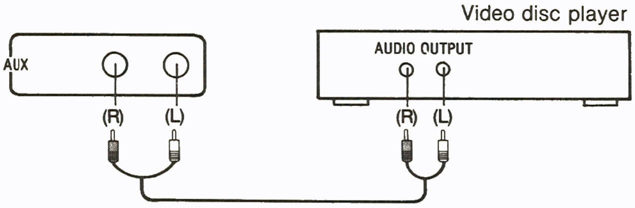

Tuner
TUNER
(R)
(L)
OUT PUT
(R)
(L)

■ “CONTROL (TO TUNER)” terminal

This terminal is used to connect a Technics tuner with the control terminal.

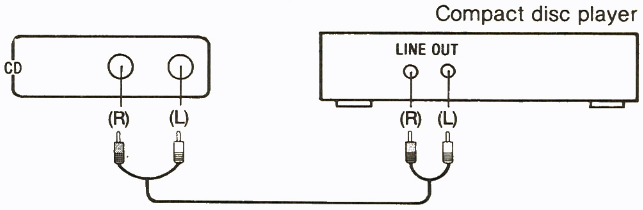
③ “AUX” terminals

Connect a video disc player (Only the audio is connectable), etc.


Video disc player
AUX
(R)
(L)
AUDIO OUTPUT
(R)
(L)

④ “CD” terminals

Connect a compact disc player.

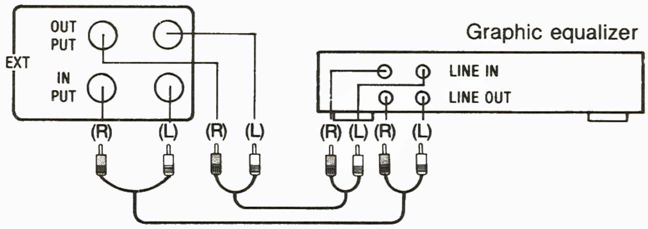

Compact disc player
CD
(R)
(L)
LINE OUT
(R)
(L)

■ “CONTROL (TO CD)” terminal

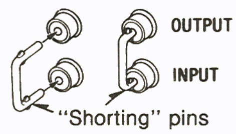
This terminal is used to connect a Technics compact disc player with the control terminal.

⑤ “EXT” terminals

Connect a graphic equalizer.

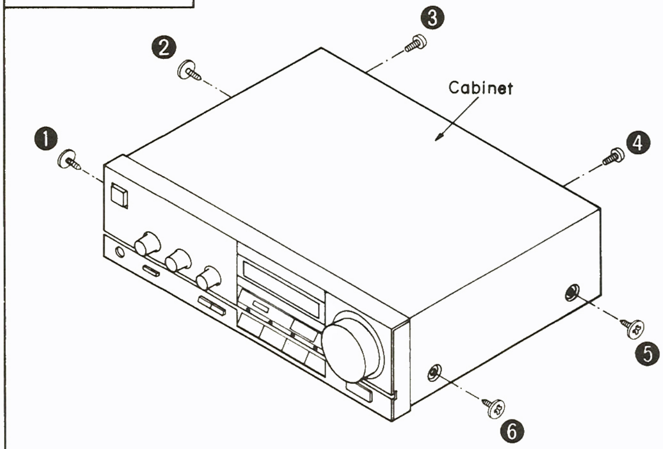

OUT PUT
EXT
IN PUT
Graphic equalizer
LINE IN
LINE OUT
(R)
(L)
(R)
(L)
(R)
(L)
(R)
(L)

Note:
When these terminals are not in use, be sure to insert the “shorting” pins (included).


OUTPUT
INPUT
“Shorting” pins

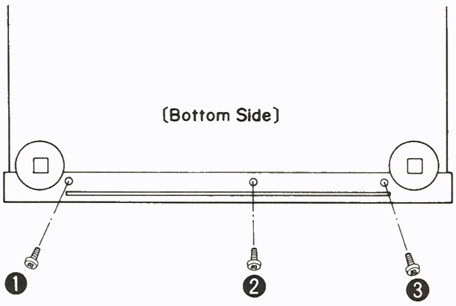
■ DISASSEMBLY INSTRUCTIONS

Ref. No. 1	Removal of the Cabinet
Procedure 1	

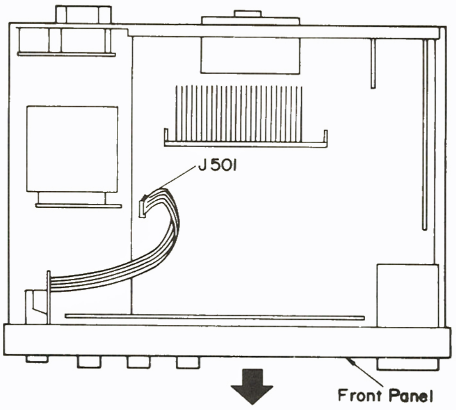

❸
❷
Cabinet
❶
❹
❺
❻

- Remove the 6 screws (❶~❻).

Ref. No. 2	Removal of the Front Panel
Procedure 1→2	

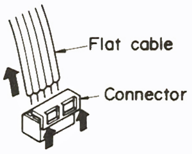

(Bottom Side)
❶
❷
❸

1. Remove the 3 screws (❶~❸).
2. Remove the flat cable (J501).
3. Remove the front panel in the direction of the arrow.

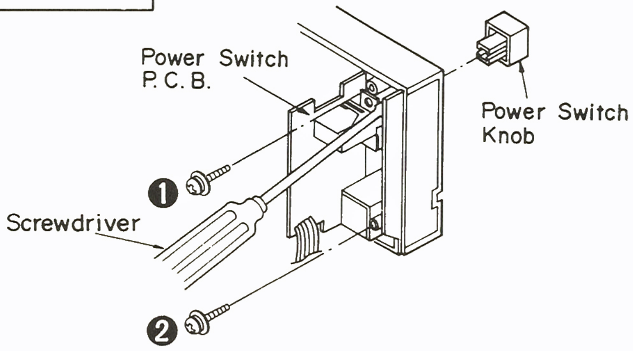

J501
Front Panel

How to remove the flat cable

1. Lift the connector.
2. Pull out the flat cable.


Flat cable
Connector

Ref. No. 3	Removal of the Power Switch P.C.B.
Procedure 1→2→3	


Power Switch P.C.B.
Power Switch Knob
❶
Screwdriver
❷

1. Remove the power switch knob by pushing it from behind the front panel.
2. Remove the 2 screws (❶, ❷).

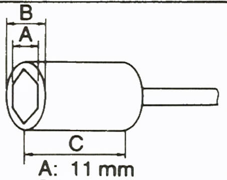
Ref. No. 4	Removal of the FL Drive/Tone Amp P.C.B. and Volume P.C.B.
Procedure 1→2→4	

Removal of the FL P.C.B.

1. Remove the 3 knobs (❶~❸).
2. Remove the 3 nuts (❹~❻).
3. Remove the 5 screws (❼~⓫).

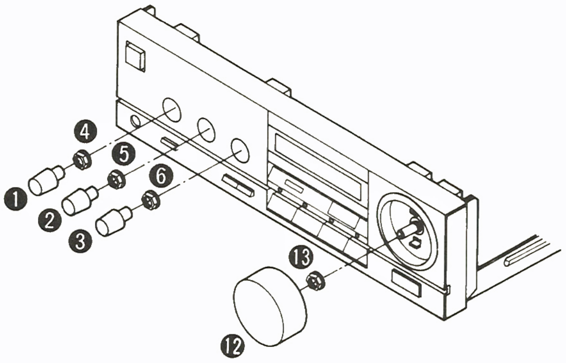
Removal of the Volume P.C.B.

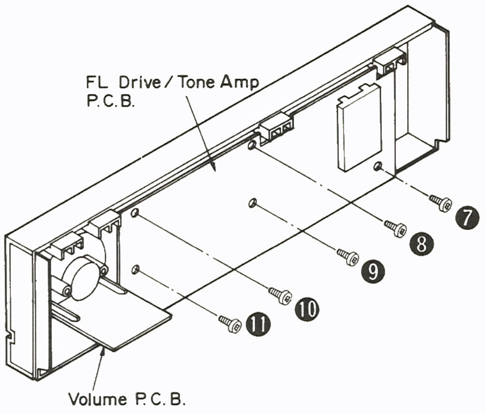
1. Remove the 1 knob (⓬).
2. Remove the 1 nut (⓭).



A: 11 mm
B: 16 mm
C: longer than 22 mm

- Use a wrench of the dimensions shown in the illustration above to remove nuts.

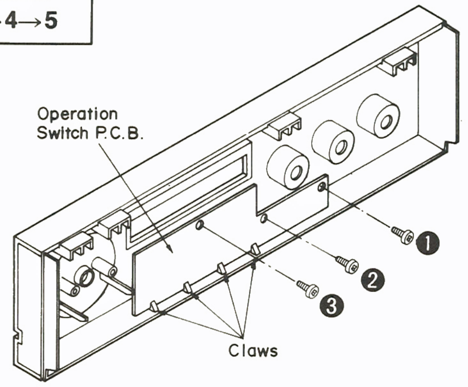



FL Drive/Tone Amp P.C.B.
❼
❽
❾
❿
⓫
Volume P.C.B.

Ref. No. 5

Removal of the Operation Switch P.C.B.

Procedure 1→2→4→5

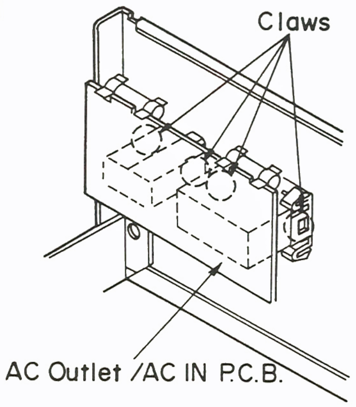

Operation Switch P.C.B.
❶
❷
❸
Claws

1. Remove the 3 screws (❶~❸).
2. Release the 4 claws.

Ref. No. 6

Removal of the AC Outlet/AC IN P.C.B.

Procedure 1→6

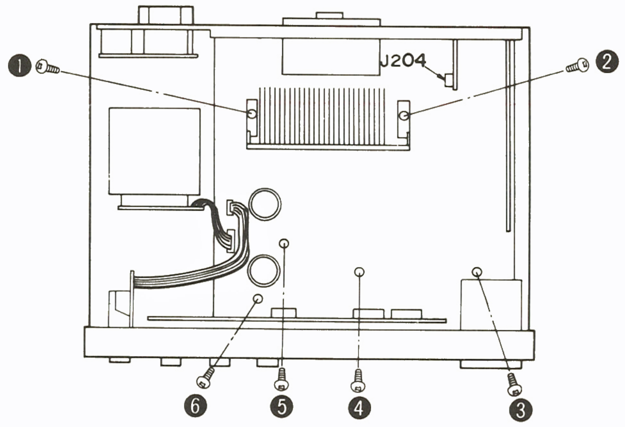

Claws
AC Outlet /AC IN P.C.B.

- Release the 4 claws.

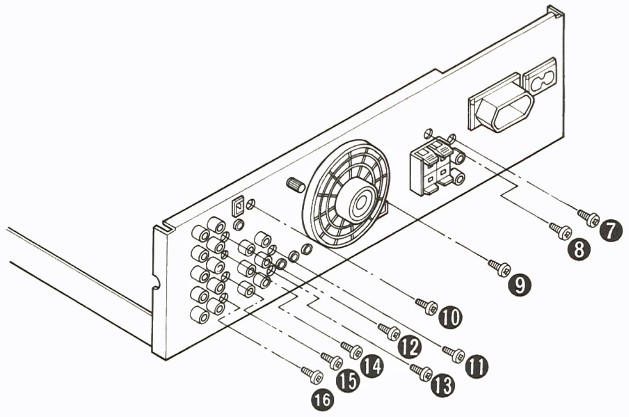
Ref. No. 7

Removal of the Main P.C.B.

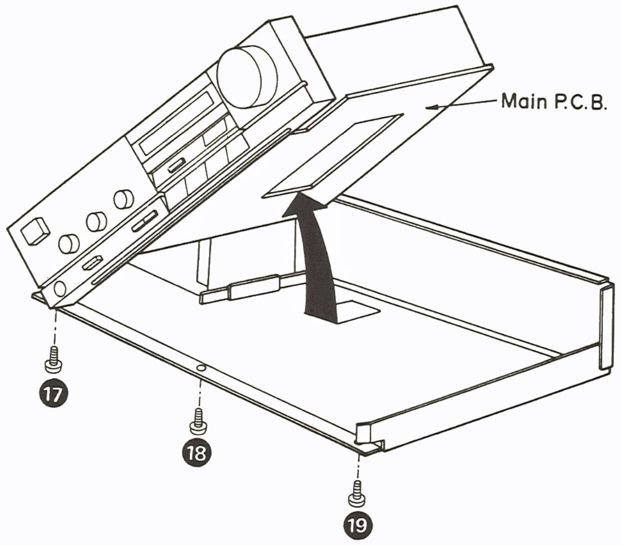
Procedure 1→7


❶
❷
J204
❻
❺
❹
❸

1. Remove the 6 screws (❶~❻).
2. Remove the 1 connector (J204).


❼
❽
❾
❿
⓫
⓬
⓭
⓮
⓯
⓰

3. Remove the 10 screws (❼~⓰).

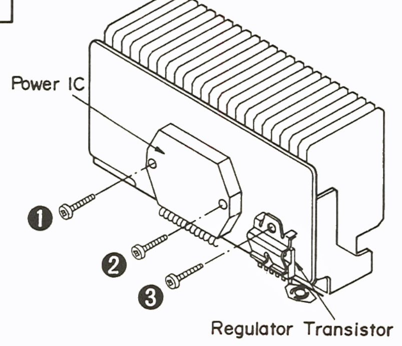

Main P.C.B.
⓱
⓲
⓳

4. Remove the 3 screws (⓱~⓳).
5. Remove the main P.C.B. in the direction of the arrow.

Ref. No. 8

Remove of the Power IC and Regulator Transistor

Procedure 1→7→8


Power IC
❶
❷
❸
Regulator Transistor

1. Unsolder the power IC or regulator transistor.
2. Remove the 3 screws (❶~❸).

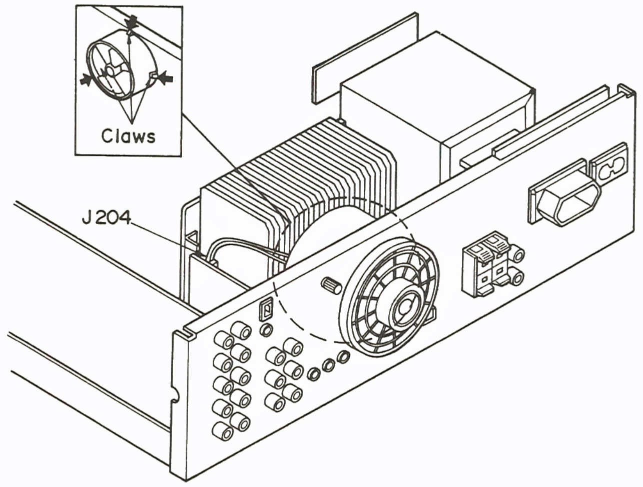
- **When mounting the power IC or regulator transistor.** Apply silicone compond (SZZOL15) to the rear side of power IC or regulator transistor.

Ref. No. 9

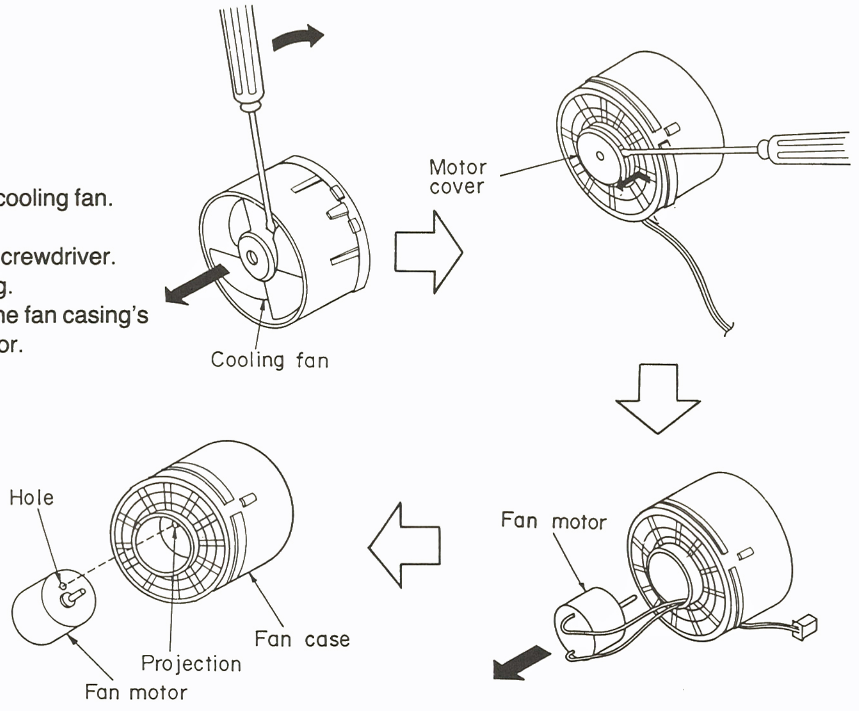
Removal of the Fan Motor

Procedure 1→9

(SU-X101: [EB] area only
SU-X301: all areas)



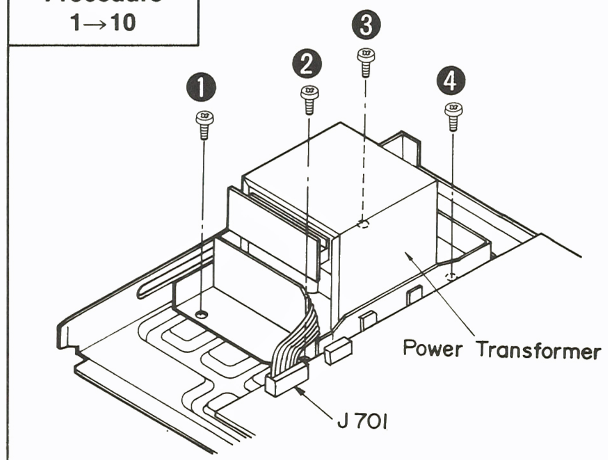
1. Pull out the 1 connector (J204).
2. Release the 3 claws.
3. Insert a screwdriver at the root of the cooling fan. Force it out of the motor shaft.
4. Remove the motor cover by used ⊖ screwdriver.
5. Remove the motor from the fan casing.
6. When mounting the motor fan, align the fan casing's projection with the hole of the fan motor.


Cooling fan
Motor cover
Fan motor
Hole
Fan case
Projection
Fan motor

Ref. No. 10

Removal of the Power Transformar

Procedure 1→10

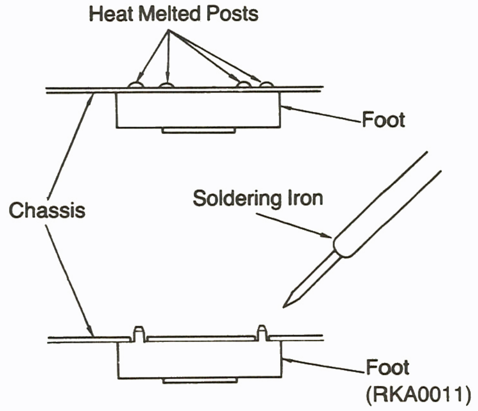

❶
❷
❸
❹
Power Transformer
J701

1. Remove the 1 flat cable (J701).
2. Remove the 4 screws (❶~❹).

"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

• Replacement of the Foot.

1. Remove the 4 heat melted posts on the chassis with a pair of nippers or similar tool.
2. To replace the foot (RKA0011) on the chassis, melt the 4 posts with a soldering iron.


Heat Melted Posts
Foot
Chassis
Soldering Iron
Foot (RKA0011)

■ SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

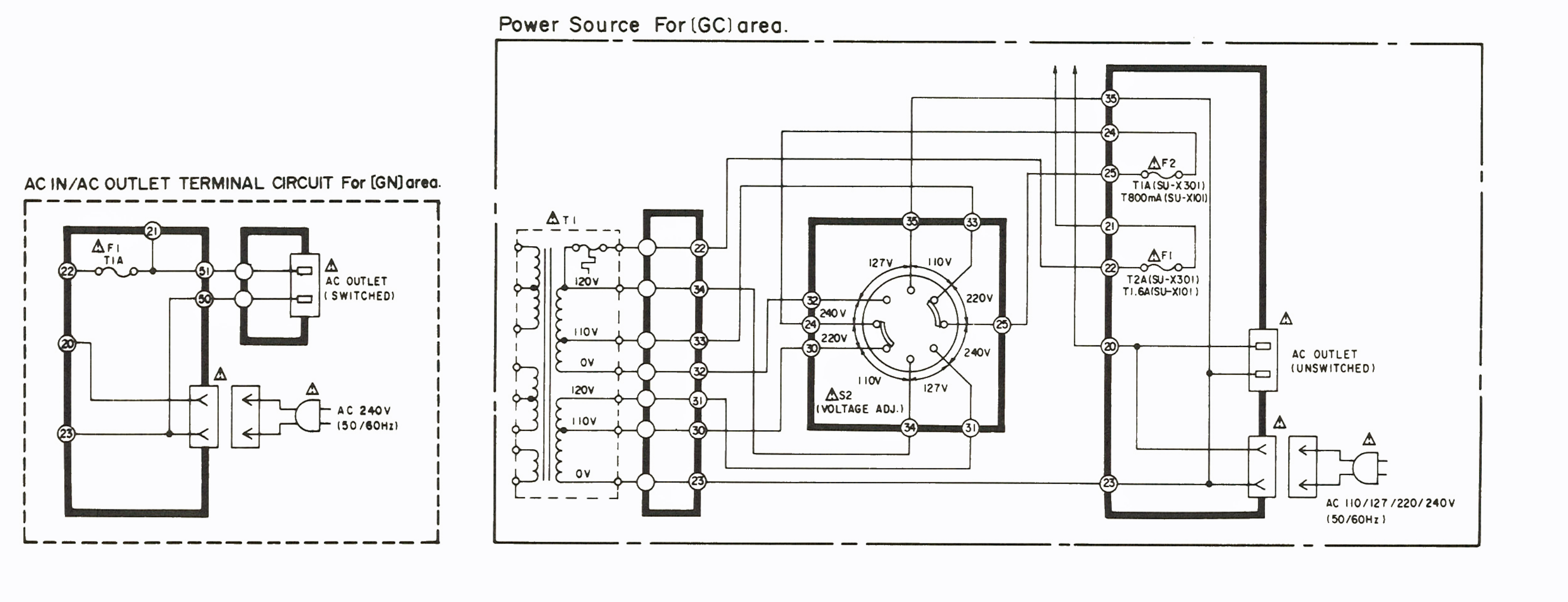
●S1:	Power switch.
●S2:	Voltage selector switch in "**220 V**" position. **(110 V/127 V/220 V/240 V)** For (GC) area only.
●S601A:	Surround-sound switch.
●S601~604: **S610:**	Input selector switches. **(S601: PHONO, S602: TUNER, S603: AUX** **S604: TAPE, S610: CD)**
●S607, 608:	Balance control switches. **(S607: Lch, S608: Rch)**
●S609:	Audio muting switch.

CD • Phono signal line
Phase difference signal
Positive voltage line
Recording signal
Super bass signal
Negative voltage line

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

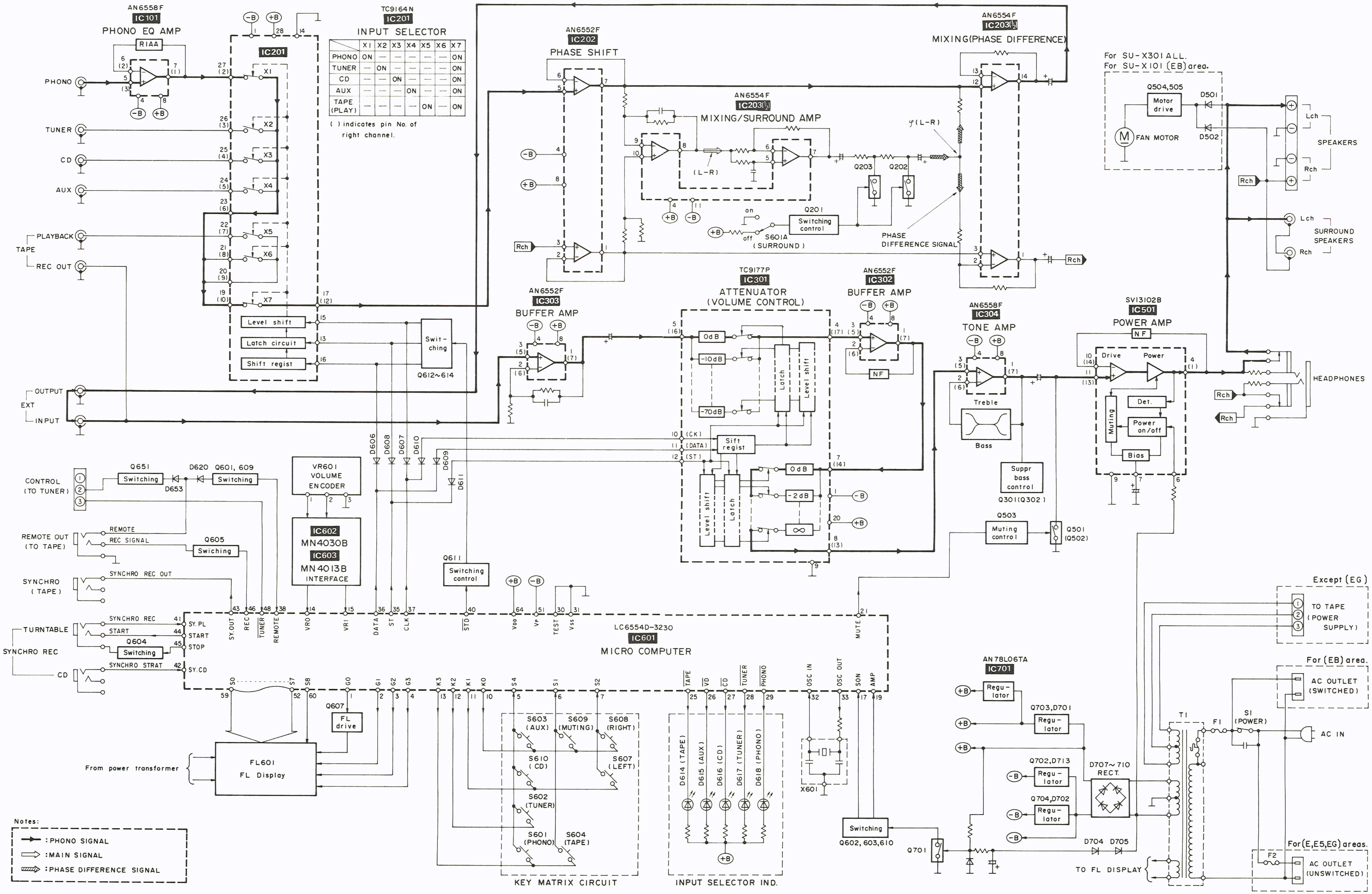
***Caution!**
IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care furing repair.
*Cover the parts boxes made of plastics with aluminum foil.
*Ground the soldering iron.
*Put a conductive mat on the work table.
*Do not touch the legs of IC or LSI with the fingers directly.

A PHONO EQ AMP / INPUT SELECTOR CIRCUIT
C VOLUME CIRCUIT
F FL DRIVE / TONE AMP CIRCUIT
D LED / INPUT SELECT SWITCH CIRCUIT
E MAIN CIRCUIT
B INPUT / OUTPUT TERMINAL CIRCUIT
G HEADPHONES / POWER SWITCH CIRCUIT
H AC IN / AC OUTLET TERMINAL CIRCUIT
FL DISPLAY
Phono signal (Lch)
Phase difference signal
Recording signal
IC101 AN6558F PHONO EQ AMP
IC201 TC9164N INPUT SELECTOR
IC202 AN6552F PHASE SHIFT
IC203 AN6554F MIXING / PHASE SHIFT
IC602 MN4030B LOGIC (OR)
IC603 MN4013B LOGIC (F-FLOP)
IC601 LC6554C-3230 MICRO COMPUTER
IC301 TC9177P ATTENUATOR
IC302 AN6552F BUFFER AMP
IC303 AN6552F BUFFER AMP
IC304 AN6558F TONE AMP
IC501 SVI3102B POWER AMP
IC701 AN78L06TA REGULATOR
HEADPHONES



Power Source For (GC) area
AC IN/AC OUTLET TERMINAL CIRCUIT For (SA) area

■ BLOCK DIAGRAM



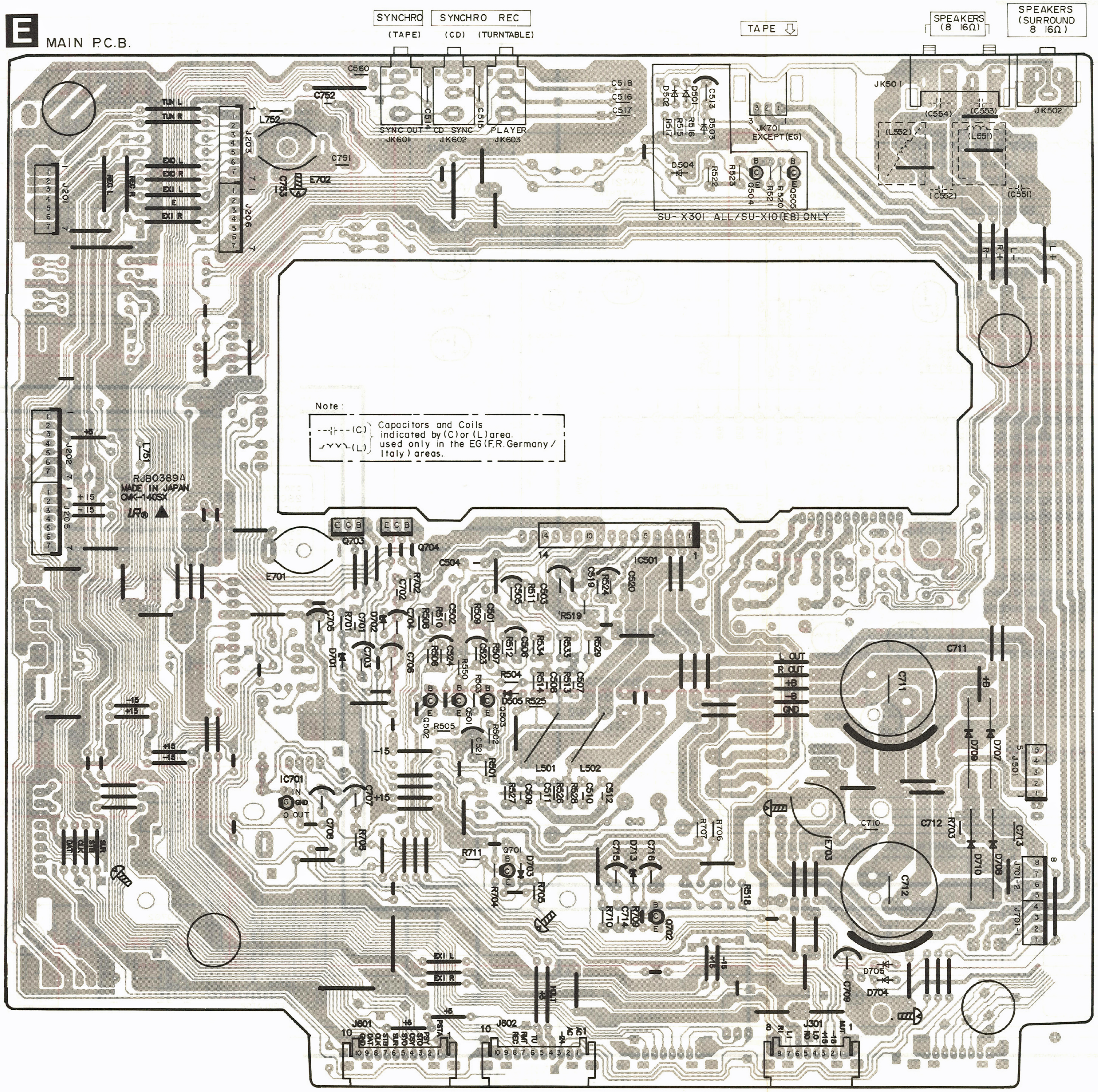
	X1	X2	X3	X4	X5	X6	X7
PHONO	ON	—	—	—	—	—	ON
TUNER	—	ON	—	—	—	—	ON
CD	—	—	ON	—	—	—	ON
AUX	—	—	—	ON	—	—	ON
TAPE (PLAY)	—	—	—	—	ON	—	ON

( ) indicates pin No. of right channel.

AN6558F
IC101
PHONO EQ AMP
RIAA
PHONO
TUNER
CD
AUX
PLAYBACK
TAPE
REC OUT
TC9164N
IC201
INPUT SELECTOR
Level shift
Latch circuit
Shift regist
Swit-ching
Q612~614
OUTPUT
EXT
INPUT
AN6552F
IC202
PHASE SHIFT
AN6554F
IC203(1/2)
MIXING/SURROUND AMP
(L-R)
Q203
Q202
Q201
Switching control
S601A
on
off
(SURROUND)
PHASE DIFFERENCE SIGNAL
AN6554F
IC203(1/2)
MIXING(PHASE DIFFERENCE)
φ(L-R)
Rch
For SU-X301 ALL.
For SU-X101 (EB) area.
Q504,505
Motor drive
FAN MOTOR
D501
D502
Lch
SPEAKERS
SURROUND SPEAKERS
AN6552F
IC303
BUFFER AMP
TC9177P
IC301
ATTENUATOR
(VOLUME CONTROL)
0dB
-10dB
-70dB
Latch
Level shift
Sift regist
(CK)
(DATA)
(ST)
-2dB
∞
AN6552F
IC302
BUFFER AMP
NF
AN6558F
IC304
TONE AMP
Treble
Bass
Suppr bass control
Q301(Q302)
Q503
Muting control
Q501 (Q502)
SVI3102B
IC501
POWER AMP
Drive
Power
Det.
Muting
Power on/off
Bias
HEADPHONES
CONTROL (TO TUNER)
Q651
Switching
D620
Q601, 609
D653
VR601 VOLUME ENCODER
IC602
MN4030B
IC603
MN4013B
INTERFACE
D606
D608
D607
D610
D609
D611
REMOTE OUT (TO TAPE)
REMOTE
REC SIGNAL
Q605
Swiching
SYNCHRO (TAPE)
SYNCHRO REC OUT
TURNTABLE
SYNCHRO REC
START
Q604
SYNCHRO STRAT
CD
Q611
Switching control
SY.PL
START
STOP
SY.CD
SY.OUT
REC
TUNER
REMOTE
VRO
VRI
DATA
ST
CLK
STD
VDD
VP
TEST
VSS
MUTE
LC6554D-3230
IC601
MICRO COMPUTER
OSC IN
OSC OUT
SON
AMP
Q607
FL drive
FL601
FL Display
From power transformer
S603 (AUX)
S609 (MUTING)
S608 (RIGHT)
S610 (CD)
S607 (LEFT)
S602 (TUNER)
S601 (PHONO)
S604 (TAPE)
KEY MATRIX CIRCUIT
D614 (TAPE)
D615 (AUX)
D616 (CD)
D617 (TUNER)
D618 (PHONO)
INPUT SELECTOR IND.
X601
Switching
Q602, 603, 610
Q701
AN78L06TA
IC701
Regu-lator
Q703,D701
Q702,D713
Q704,D702
D707~710 RECT.
D704
D705
TO FL DISPLAY
T1
F1
S1 (POWER)
AC IN
Except (EG)
TO TAPE (POWER SUPPLY)
For (EB) area.
AC OUTLET (SWITCHED)
For (E,E5,EG) areas.
F2
AC OUTLET (UNSWITCHED)
Notes:
: PHONO SIGNAL
: MAIN SIGNAL
: PHASE DIFFERENCE SIGNAL

■ PRINTED CIRCUIT BOARDS

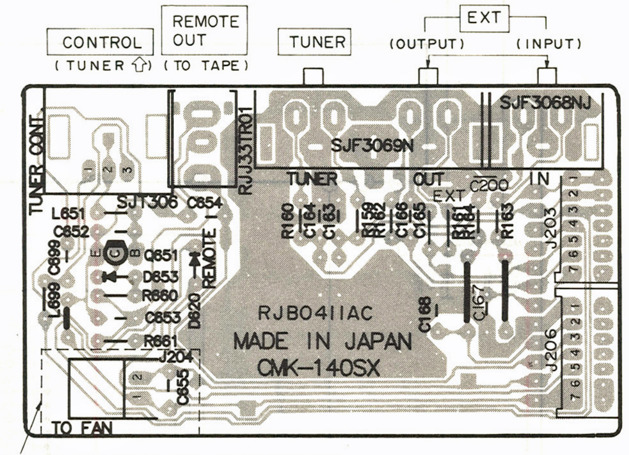
E MAIN P.C.B.


SYNCHRO (TAPE)
SYNCHRO REC (CD) (TURNTABLE)
TAPE ⇩
SPEAKERS (8 16Ω)
SPEAKERS (SURROUND 8 16Ω)
SYNC OUT JK601
CD SYNC JK602
PLAYER JK603
JK501
JK502
JK701 EXCEPT(EG)
SU-X301 ALL/SU-X101(EB) ONLY
J201
J203
J206
J202
J205
TUN L
TUN R
EXO L
EXO R
EXI L
EXI R
L752
C752
C560
C751
C753
E702
C514
C515
C516
C517
C518
D501
D502
D503
C513
D504
Q504
Q505
R520
R521
R522
R523
(C554)
(C553)
(L552)
(L551)
(C552)
(C551)
R- R+ L- L+
L751
RJB0389A
MADE IN JAPAN
CMK-140SX
E701
Q703
Q704
IC501
C504
C519
C520
C524
C503
C505
C501
C502
R511
R519
R509
R510
R702
C702
C704
C705
R701
D702
D701
C703
C706
R506
R550
R507
C525
R512
C506
R534
R533
C507
R529
R504
R514
R505
R525
D505
Q501
Q502
Q503
C521
R502
R501
L501
L502
R527
C509
C511
R526
R528
C510
C512
IC701
IN
GND
OUT
C707
C708
R708
R711
Q701
D703
R704
R705
C715
D713
C716
C714
R709
R710
Q702
L OUT
R OUT
+B
GND
C711
D709
D707
J501
C710
C712
R703
E703
R707
R706
R518
C713
D710
D708
J701-2
J701-1
D705
D704
C709
+15
-15
EXI L
EXI R
J601
J602
J301
DATA CLK STB

Note:

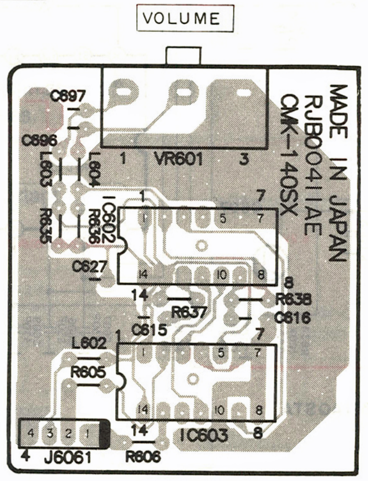
---||---(C) ⌇⌇⌇(L) Capacitors and Coils indicated by (C) or (L) area. used only in the EG (F.R.Germany / Italy) areas.

B INPUT/OUTPUT TERMINAL P.C.B.

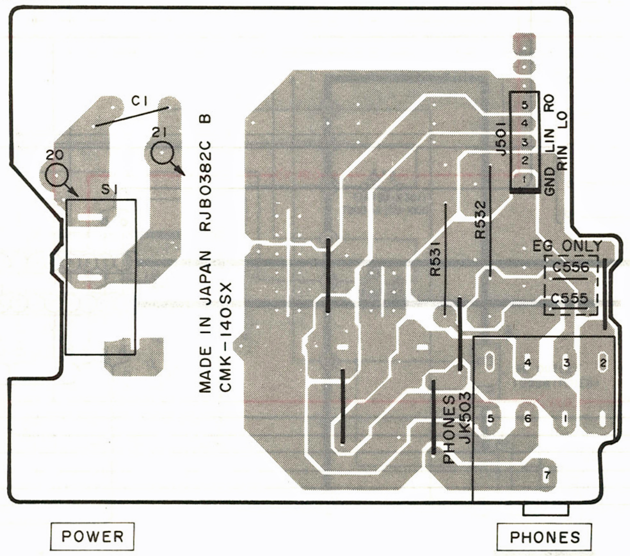

CONTROL (TUNER ⇧)
REMOTE OUT (TO TAPE)
TUNER
EXT
(OUTPUT)
(INPUT)
TUNER CONT
RJJ331R01
SJF3069N
SJF3068NJ
TUNER
OUT
EXT
IN
C200
SJT306
C854
L651
C852
C699
L699
Q651
D853
R660
C853
R661
D820
REMOTE
J204
C855
R160
C164
C163
R159
R162
C166
C165
R161
R163
J203
C168
C167
J206
RJB0411AC
MADE IN JAPAN
CMK-140SX
TO FAN

For SU-X301ALL/SU-X101(EB) areas.

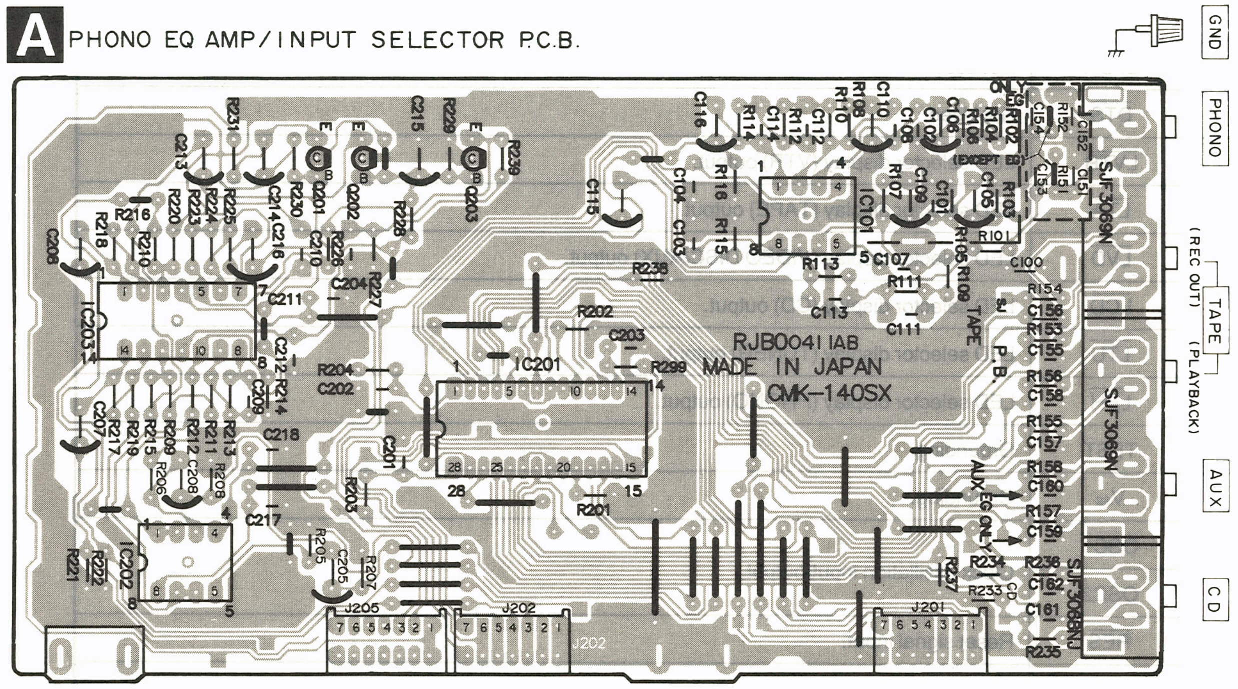
C VOLUME P.C.B.


VOLUME
C697
C696
L604
VR601
R635
C630
R636
C627
R637
R638
C616
C615
L602
R605
J6061
R606
IC603
MADE IN JAPAN
RJB0411AE
CMK-140SX

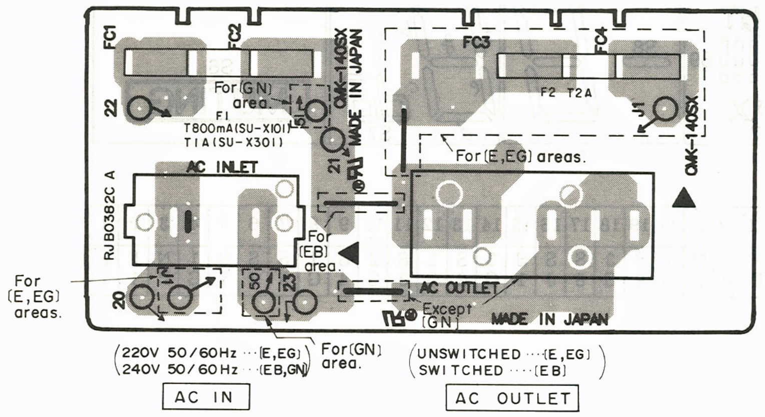
G HEADPHONES/POWER SWITCH P.C.B.


C1
20
21
S1
RJB0382C B
MADE IN JAPAN
CMK-140SX
J501
GND LIN RIN RO LO
R531
R532
EG ONLY
C556
C555
PHONES JK503
POWER
PHONES

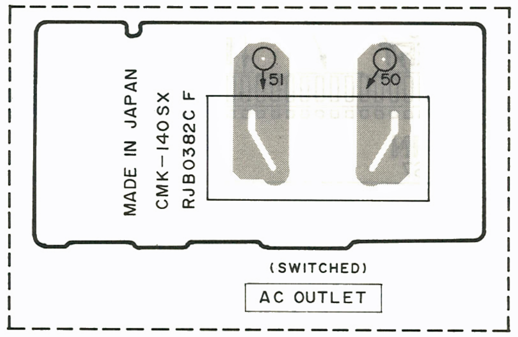
A PHONO EQ AMP / INPUT SELECTOR P.C.B.


GND
PHONO
(REC OUT) TAPE (PLAYBACK)
AUX
CD
RJB0041IAB
MADE IN JAPAN
CMK-140SX
IC201
IC202
IC203
IC101
J205
J202
J201
SJF3069N
SJF3068N

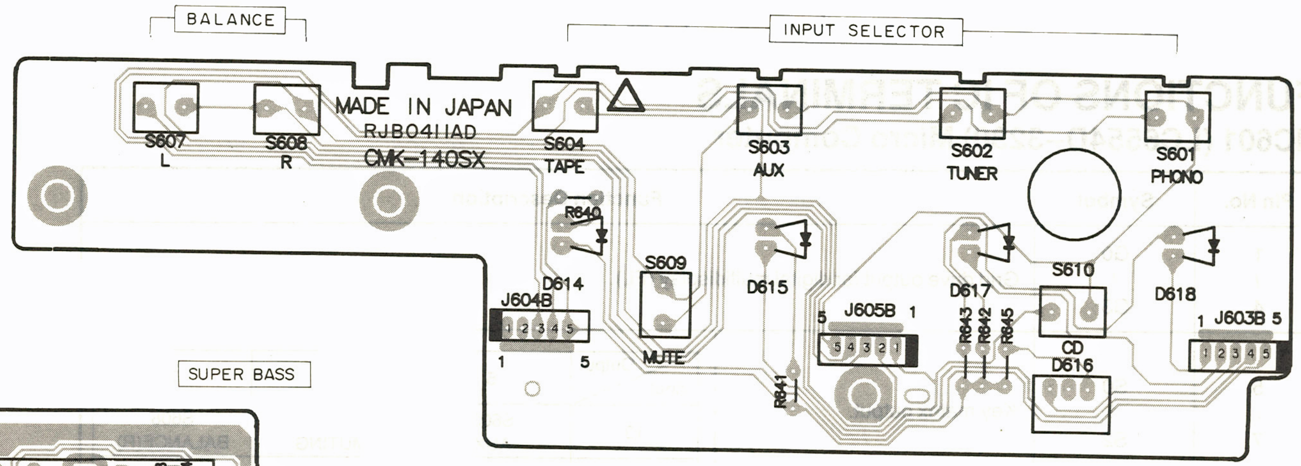
H AC IN / AC OUTLET TERMINAL P.C.B.


FC1
FC2
FC3
FC4
For [GN] area.
F1
T800mA (SU-X101)
T1A (SU-X301)
F2 T2A
AC INLET
For [E,EG] areas.
For [EB] area.
For [GN] area.
AC OUTLET
Except [GN]
MADE IN JAPAN
CMK-140SX
RJB0382C A
(220V 50/60Hz ··· [E,EG]
240V 50/60Hz ··· [EB,GN])
AC IN
(UNSWITCHED ··· [E,EG]
SWITCHED ··· [EB])
AC OUTLET

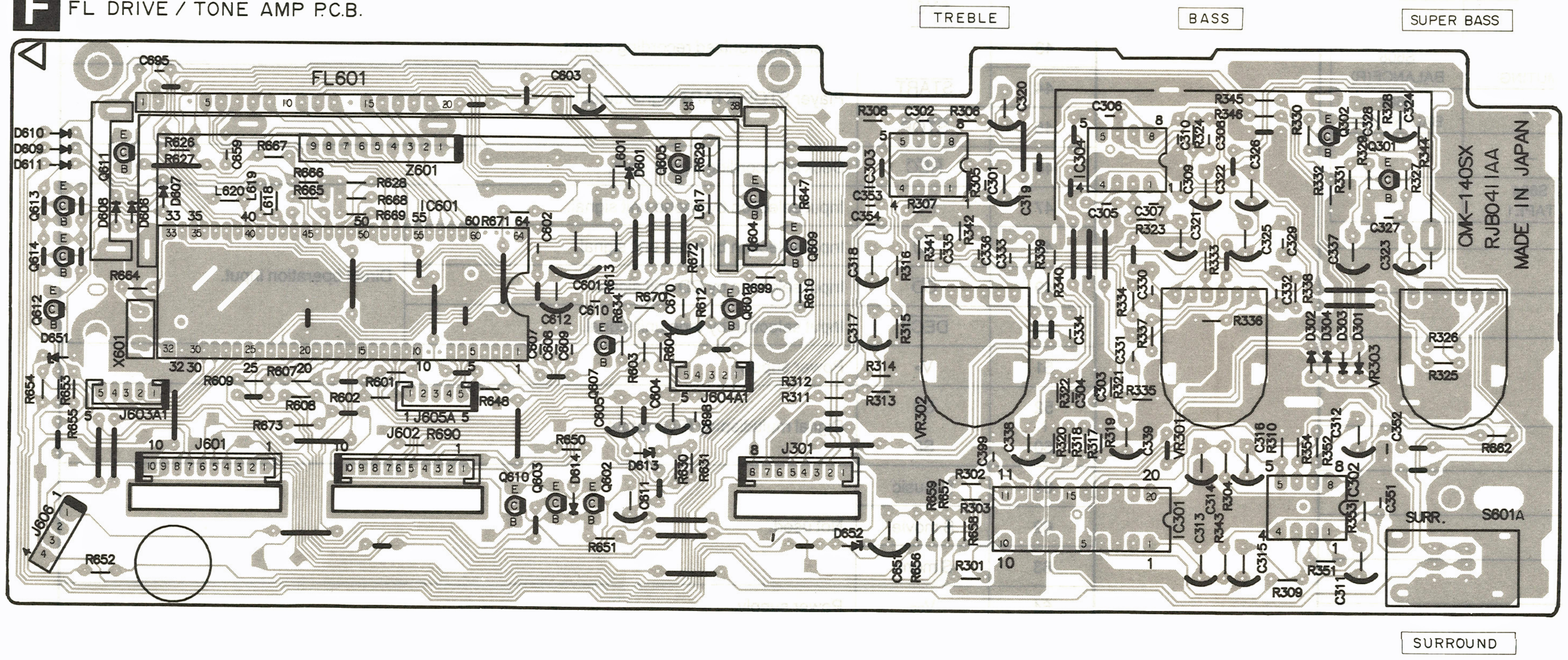
AC OUTLET P.C.B. For [GN] area.

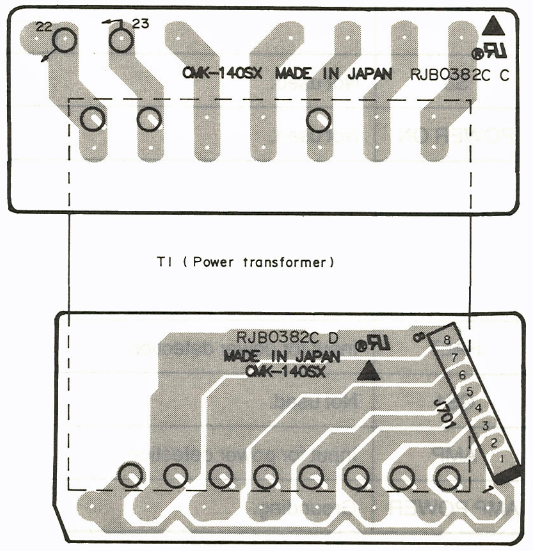

MADE IN JAPAN
CMK-140SX
RJB0382C F
51
50
(SWITCHED)
AC OUTLET

D LED / INPUT SELECT SWITCH P.C.B.

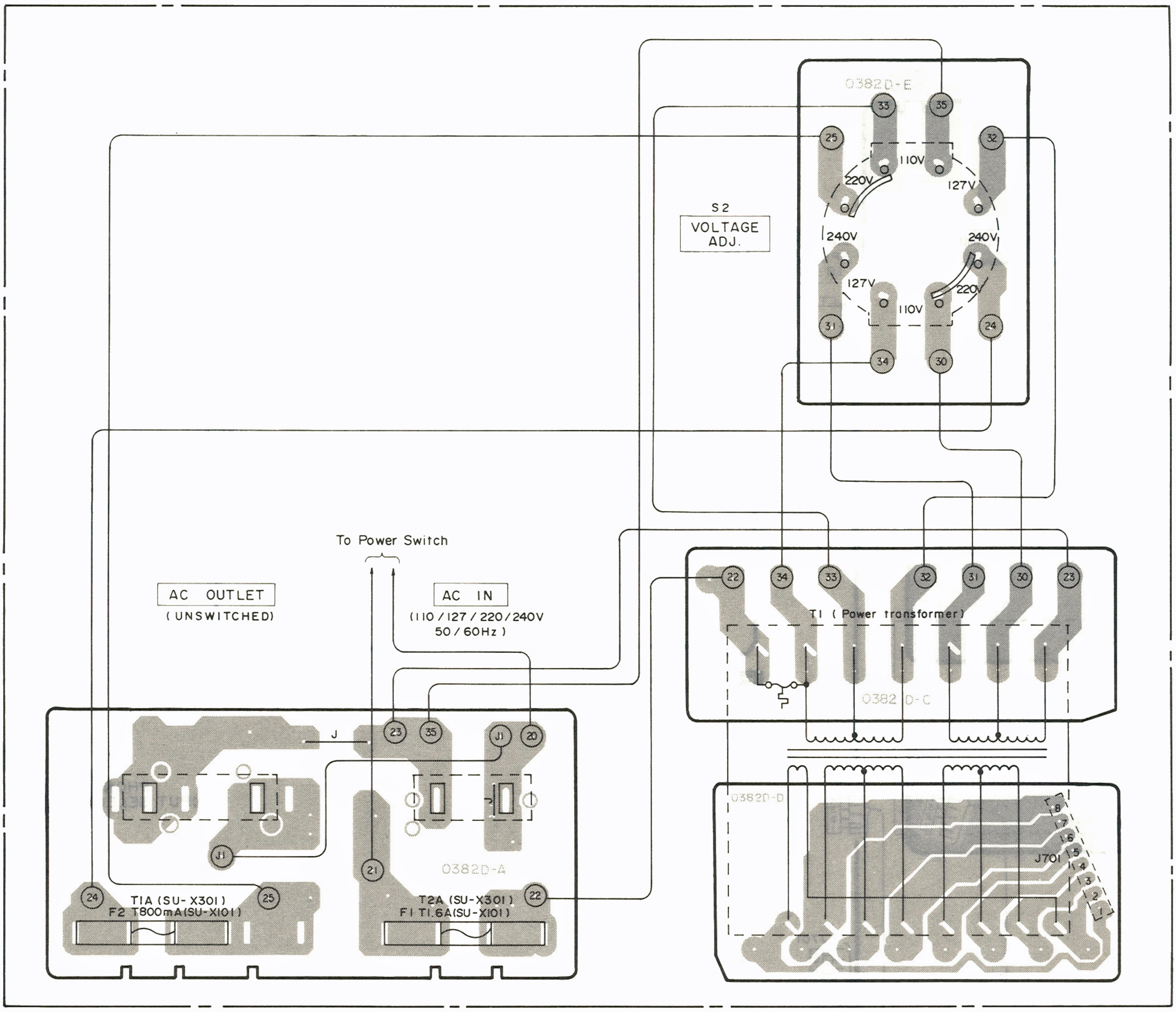

BALANCE
INPUT SELECTOR
MADE IN JAPAN
RJB0411AD
CMK-140SX
S607 L
S608 R
S604 TAPE
S603 AUX
S602 TUNER
S601 PHONO
S609 MUTE
S610 CD
D614
D615
D617
D618
D616
J604B
J605B
J603B

F FL DRIVE / TONE AMP P.C.B.

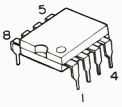
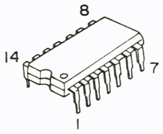
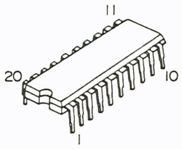
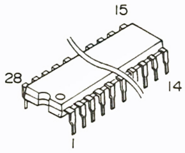
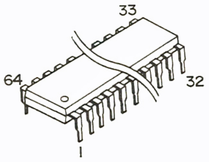
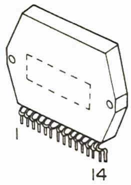
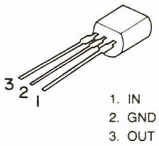
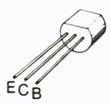
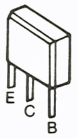
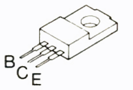
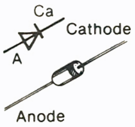
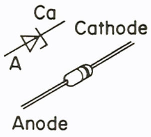
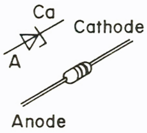
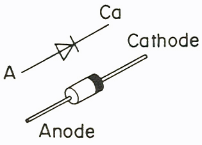
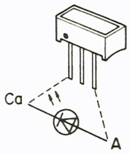
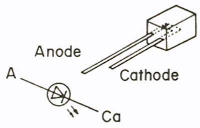

TREBLE
BASS
SUPER BASS
FL601
Z601
IC601
X601
J601
J602
J301
J603A1
J604A1
J605A
J606
IC301
IC302
IC303
IC304
VR301
VR302
VR303
S601A
SURR.
SURROUND
CMK-140SX
RJB0411AA
MADE IN JAPAN


22
23
CMK-140SX MADE IN JAPAN RJB0382C C
T1 (Power transformer)
RJB0382C D
MADE IN JAPAN
CMK-140SX
J701

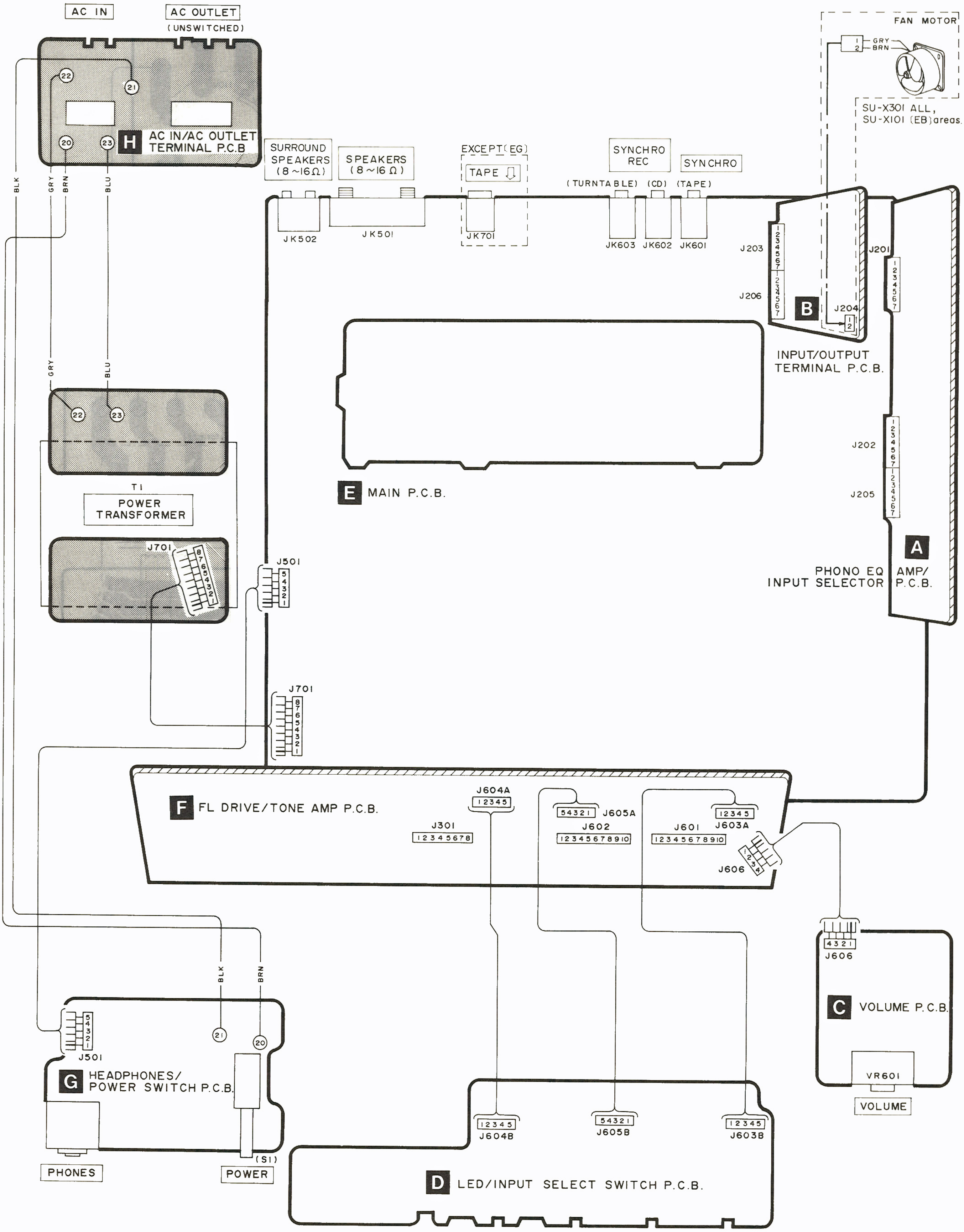
Power Source For(GC) area.


0382D-E
S2
VOLTAGE ADJ.
110V
127V
220V
240V
AC OUTLET
(UNSWITCHED)
To Power Switch
AC IN
(110/127/220/240V
50/60Hz)
T1 (Power transformer)
0382D-C
0382D-D
J701
0382D-A
J
T1A (SU-X301)
F2 T800mA(SU-X101)
T2A (SU-X301)
F1 T1.6A(SU-X101)
J1
20
21
22
23
24
25
30
31
32
33
34
35

TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

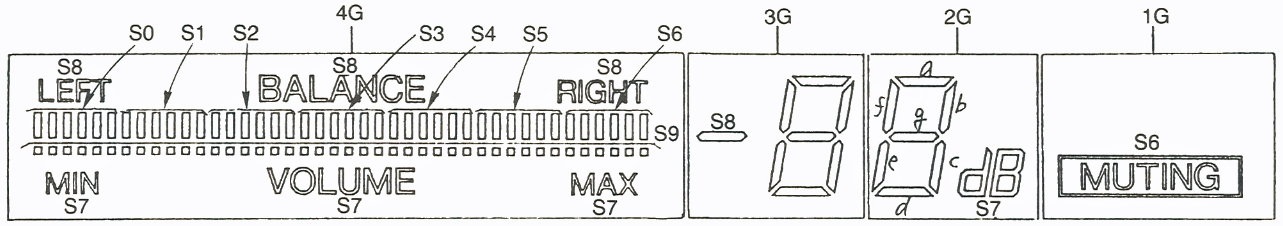
AN6552F AN6558F 	MN4013B MN4030B AN6554F 	TC9177P 	TC9164N 	LC6554D-3230 	SV13102B 
AN78L06TA  3 2 1 1. IN 2. GND 3. OUT	2SB621AQRSTA 2SC3114STUTA 	 2SA1309AQSTA 2SC3311AQSTA 2SC3312RSTA 2SD1450QRSTA UN4111TA UN4211TA UN4212TA		2SB1187DEF 2SD1761DEF 	MA165TA MA167TA 1SS291TA  Ca Cathode A Anode
MA4150MTA MA4180MTA  Ca Cathode A Anode	MA4047MTA MA4051MTA MA4056MTA  Ca Cathode A Anode	P300DLF  Ca Cathode A Anode	LD-001VR 	LN873RP-LS  Anode A Cathode Ca	

■ WIRING CONNECTION DIAGRAM


AC IN
AC OUTLET
(UNSWITCHED)
22
21
20
23
H AC IN/AC OUTLET TERMINAL P.C.B
BLK
GRY
BRN
BLU
SURROUND SPEAKERS (8～16Ω)
SPEAKERS (8～16Ω)
EXCEPT (EG)
TAPE
SYNCHRO REC
SYNCHRO
(TURNTABLE)
(CD)
(TAPE)
JK502
JK501
JK701
JK603
JK602
JK601
FAN MOTOR
GRY
BRN
SU-X301 ALL, SU-X101 (EB) areas.
J203
J206
J201
J204
B
INPUT/OUTPUT TERMINAL P.C.B.
J202
J205
E MAIN P.C.B.
A
PHONO EQ AMP/ INPUT SELECTOR P.C.B.
T1
POWER TRANSFORMER
J701
J501
F FL DRIVE/TONE AMP P.C.B.
J604A
J301
J605A
J602
J601
J603A
J606
C VOLUME P.C.B.
VR601
VOLUME
J501
G HEADPHONES/ POWER SWITCH P.C.B.
PHONES
(S1)
POWER
J604B
J605B
J603B
D LED/INPUT SELECT SWITCH P.C.B.

■ DESCRIPTION OF FL PANEL

●GRID ASSIGNMENT



●PIN CONNECTION

PIN NO.	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	F2	F2	NP	4G	NP	NP	NP	NP	NP	NP	NP	4G	NP	NP	NP	NP	NP	NP	4G	S9	3G	S8	S0	S1	3G	S2	2G	S3	2G	S4	1G	S5	S6	S7	1G	NP	F1	F1

●ANODE CONNECTION

	4G	3G	2G	1G
S0	▮▮▮▮▮▮	a	a	-
S1	▮▮▮▮▮▮	b	b	-
S2	▮▮▮▮▮▮	c	c	-
S3	▮▮▮▮▮▮	d	d	-
S4	▮▮▮▮▮▮	e	e	-

	4G	3G	2G	1G
S5	▮▮▮▮▮▮	f	f	-
S6	▮▮▮▮▮▮	g	g	MUTING
S7	MIN VOLUME MAX	-	dB	-
S8	LEFT BALANCE RIGHT	▬	-	-
S9	▬▬▬▬▬▬ (×7)	-	-	-

■ FUNCTIONS OF IC TERMINALS

●IC601 (LC6554D–3230) Micro Computer

<table>
<tr><th>Pin No.</th><th>Symbol</th><th colspan="2">Function Description</th></tr>
<tr><td>1
≀
4</td><td>G0
≀
G3</td><td colspan="2">Grid drive output for digital multidisplay (FL).</td></tr>
<tr><td>5
≀
7</td><td>S0
≀
S2</td><td>Key matrix output.</td><td rowspan="2">
<table>
<tr><th>Output / Input</th><th>5</th><th>6</th><th>7</th></tr>
<tr><td>10</td><td>S603
AUX</td><td>S609
MUTING</td><td>S608
BALANCE(R)</td></tr>
<tr><td>11</td><td>S610
CD</td><td>—</td><td>S607
BALANCE(L)</td></tr>
<tr><td>12</td><td>S602
TUNER</td><td>—</td><td>—</td></tr>
<tr><td>13</td><td>S601
PHONO</td><td>S604
TAPE1</td><td>—</td></tr>
</table>
</td></tr>
<tr><td>10
≀
13</td><td>K0
≀
K3</td><td>Key matrix input.</td></tr>
<tr><td>8</td><td>S3</td><td colspan="2">Not used.</td></tr>
<tr><td>9</td><td>POWER ON</td><td colspan="2">Not used.</td></tr>
<tr><td>14</td><td>VR0</td><td colspan="2" rowspan="2">Rotary encoder input of volume control (VR601).</td></tr>
<tr><td>15</td><td>VR1</td></tr>
<tr><td>16</td><td>CSO</td><td colspan="2">Grounding.</td></tr>
<tr><td>17</td><td>HALT</td><td colspan="2">Input for power detection.</td></tr>
<tr><td>18</td><td>CS1</td><td colspan="2">Not used.</td></tr>
<tr><td>19</td><td>AMP</td><td colspan="2">Input for power detection.</td></tr>
<tr><td>20</td><td>AMP POWER</td><td colspan="2">Grounding.</td></tr>
</table>

Pin. No.	Symbol	Function Description	
21	$\overline{\text{CUT}}$	Input selector noise cut multing output.	
22	$\overline{\text{S. ON}}$	Not used.	
23	$\overline{\text{DTS}}$	Not Used.	
24	$\overline{\text{LVTR}}$	LED selector display (VTR) output.	
25	$\overline{\text{LTA}}$	LED selector display (TAPE) output.	
26	$\overline{\text{LVD}}$	LED selector display (VIDEO DISC/AUX) output.	
27	$\overline{\text{LCD}}$	LED selector display (CD) output.	
28	$\overline{\text{LTU}}$	LED selector display (TUNER) output.	
29	$\overline{\text{LPH}}$	LED selector display (PHONO) output.	
30	TEST	Grounding.	
31	V_{SS}	Grounding.	
32	OSC1	Clock oscillation input/output.	
33	OSC2		
34	$\overline{\text{RES}}$	Reset signal input.	
35	ST	ST signal control output.	
36	DATA	DATA signal control output.	
37	CK	CK signal control output.	
38	$\overline{\text{REM}}$	Remote control data input.	
39	$\overline{\text{DCD}}$	Deck control output.	
40	$\overline{\text{SID}}$	ST, CK and DATA signal control.	
41	$\overline{\text{SYPH}}$	Player synchronized recording input.	
42	$\overline{\text{SYCD}}$	CD synchronized recording input.	
43	SY OUT	Deck synchronized recording output.	
44	$\overline{\text{START}}$	Player STOP/START signal output.	
45	$\overline{\text{STOP}}$		
46	$\overline{\text{REC}}$	Deck onrecording signal input.	
47	$\overline{\text{PH}}$	Input selection by phono unit signal.	Direct operation input.
48	$\overline{\text{TU}}$	Input selection by tuner unit signal.	
49	$\overline{\text{CD}}$	Input selection by CD unit signal.	
50	$\overline{\text{DECK}}$	Input selection by tape unit signal.	
51	V_P	Power supply.	
52 ≀ 60	S0 ≀ S8	Digital multidisplay (FL) output.	
61	S music	Not used.	
62	S movie		
63	S mono		
64	V_{DD}	Power supply.	

■ REPLACEMENT PARTS LIST (for SU-X101)

Notes : * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

SU-X101

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC101	AN6558F	IC, EQ AMP	
IC201	TC9164N	IC, INPUT SELECTOR	
IC202	AN6552F	IC, PHASE SHIFT	
IC203	AN6554F	IC, SURROUND AMP	
IC301	TC9177P	IC, ELECTRONIC VOLUME	
IC302, 303	AN6552F	IC, BUFFER AMP	
IC304	AN6558F	IC, TONE AMP	
IC501	SVI3102B	IC, POWER AMP	⚠
IC601	LC6554D-3230	IC, MICRO COMPUTER	
IC602	MN4030B	IC, LOGIC	
IC603	MN4013B	IC, LOGIC	
IC701	AN78L06	IC, REGULATOR	
		TRANSISTOR(S)	
Q201	2SA1309AQSTA	TRANSISTOR	
Q202, 203	2SD1450QRSTA	TRANSISTOR	
Q301, 302	2SC3312RSTA	TRANSISTOR	
Q501	2SC3114STUTA	TRANSISTOR	(E, EB, GC, GN)
Q502	2SC3114STUTA	TRANSISTOR	
Q503	2SA1309AQSTA	TRANSISTOR	
Q504	2SA1309AQSTA	TRANSISTOR	(EB)
Q505	2SC3311AQSTA	TRANSISTOR	(EB)
Q601	2SA1309AQSTA	TRANSISTOR	
Q602, 603	UN4211TA	TRANSISTOR	
Q604	2SC3311AQSTA	TRANSISTOR	
Q605	UN4212TA	TRANSISTOR	
Q607	2SC3311AQSTA	TRANSISTOR	
Q609, 610	UN4211TA	TRANSISTOR	
Q611	UN4111TA	TRANSISTOR	
Q612-614	UN4211TA	TRANSISTOR	
Q651	2SC3311AQSTA	TRANSISTOR	
Q701	UN4211TA	TRANSISTOR	
Q702	2SB621AQRSTA	TRANSISTOR	⚠
Q703	2SD1761DEF	TRANSISTOR	⚠
Q704	2SB1187DEF	TRANSISTOR	⚠
		DIODE(S)	
D301-304	MA165TA	DIODE	
D501, 502	MA167TA	DIODE	(EB)
D503	MA165TA	DIODE	(EB)
D504	MA4051MTA	DIODE	(EB)
D505	MA165TA	DIODE	

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Ref. No.	Part No.	Part Name & Description	Remarks
D601	1SS291TA	DIODE	
D606-611	MA165TA	DIODE	
D613	MA4056MTA	DIODE	
D614	LN873RP-LS	DIODE	
D614A	MA165TA	DIODE	
D615	LN873RP-LS	DIODE	
D616	LD-001VR	DIODE	
D617, 618	LN873RP-LS	DIODE	
D620	MA165TA	DIODE	
D651	MA4051MTA	DIODE	
D652	MA4047MTA	DIODE	
D653	MA165TA	DIODE	
D701, 702	MA4150MTA	DIODE	
D703	MA165TA	DIODE	
D704, 705	MA167TA	DIODE	
D707-710	P300DLF	DIODE	⚠
D713	MA4180MTA	DIODE	⚠
		VARIABLE RESISTOR(S)	
VR301	EWC2XAF25C15	V. R, BASS	
VR302	EWC2XAF25C15	V. R, TREBLE	
VR303	EWCY6AF25C54	V. R, SUPER BASS	
VR601	EVQWX2F2045B	V. R, MAIN VOLUME	
		COMPONENT COMBINATION(S)	
Z601	EXFP8331MW	COMPONENT COMBINATION	
		COIL(S)	
L501, 502	SLQY07G-40	COIL	
L551, 552	SLQY07G-40	COIL	(EG)
L601	RLQZP101KT-Y	COIL	
L602	RLQZP1R2KT-Y	COIL	
L603, 604	ELEXT330KA9	COIL	
L617-620	RLQZP101KT-Y	COIL	
L651	RLQZP101KT-Y	COIL	
L699	RLQZP101KT-Y	COIL	
L751	RLQZP101KT-Y	COIL	
L752	ELEXT330KA9	COIL	
		OSCILLATOR(S)	
X601	EF0GC3004T4	OSCILLATOR	
		DISPLAY TUBE	

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Ref. No.	Part No.	Part Name & Description	Remarks
FL601	RSL0013-F	DISPLAY TUBE	
		SWITCH(ES)	
S1	ESB8249V	POWER	⚠
S2	ESE37263	VOLTAGE SELECTOR	⚠(GC)
S601A	SSH1198	SURROUND	
S601	EVQ21405R	INPUT SELECTOR, PHONO	
S602	EVQ21405R	INPUT SELECTOR, TUNER	
S603	EVQ21405R	INPUT SELECTOR, AUX	
S604	EVQ21405R	INPUT SELECTOR, TAPE	
S607	EVQ21405R	BALANCE, L	
S608	EVQ21405R	BALANCE, R	
S609	EVQ21405R	MUTING	
S610	EVQ21405R	INPUT SELECTOR, CD	
		JACK(S)	
J201	RJT057W007	CONNECTOR(7P) MAIN P. C. B.	
J201	RJU057W007	SOCKET(7P)	
J202	RJT057W007	CONNECTOR(7P) MAIN P. C. B.	
J202	RJU057W007	SOCKET(7P)	
J203	RJT057W007	CONNECTOR(7P) MAIN P. C. B.	
J203	RJU057W007	SOCKET(7P)	
J204	SJT3215	CONNECTOR(2P)	(EB)
J205	RJT057W007	CONNECTOR(7P) MAIN P. C. B.	
J205	RJU057W007	SOCKET(7P)	
J206	RJT057W007	CONNECTOR(7P) MAIN P. C. B.	
J206	RJU057W007	SOCKET(7P)	
J301	RJT003K008M1	CONNECTOR(8P)	
J301	RJU003K008M1	SOCKET(8P) MAIN P. C. B.	
J501	RJS1A1705	CONNECTOR(5P)	
J601	RJT003K010M1	CONNECTOR(10P)	
J601	RJU003K010M1	SOCKET(10P) MAIN P. C. B.	
J602	RJT003K010M1	CONNECTOR(10P)	
J602	RJU003K010M1	SOCKET(10P) MAIN P. C. B.	
J701-1, 2	RJS1A1704	CONNECTOR(4P)	
J603A	SJT30549BB	CONNECTOR(5P)	
J604A	SJT30549BB	CONNECTOR(5P)	
J605A	SJT30549BB	CONNECTOR(5P)	
J603B	SJS50581BB	SOCKET(5P)	
J604B	SJS50581BB	SOCKET(5P)	
J605B	SJS50581BB	SOCKET(5P)	
JK501	RJR0054	SP TERMINAL	
JK502	SJF3068-4N	SURROUND SP TERMINAL	
JK503	RJJ67TS02	H P JACK	
JK601	RJJ33T01	SYNCHRO, TAPE	
JK602	RJJ33T01	SYNCHRO, CD	
JK603	RJJ33T01	SYNCHRO, TURN TABLE	
JK701	RJS1A0203-0	CONNECTOR(3P), TO DECK	(E, EB, GC, GN)

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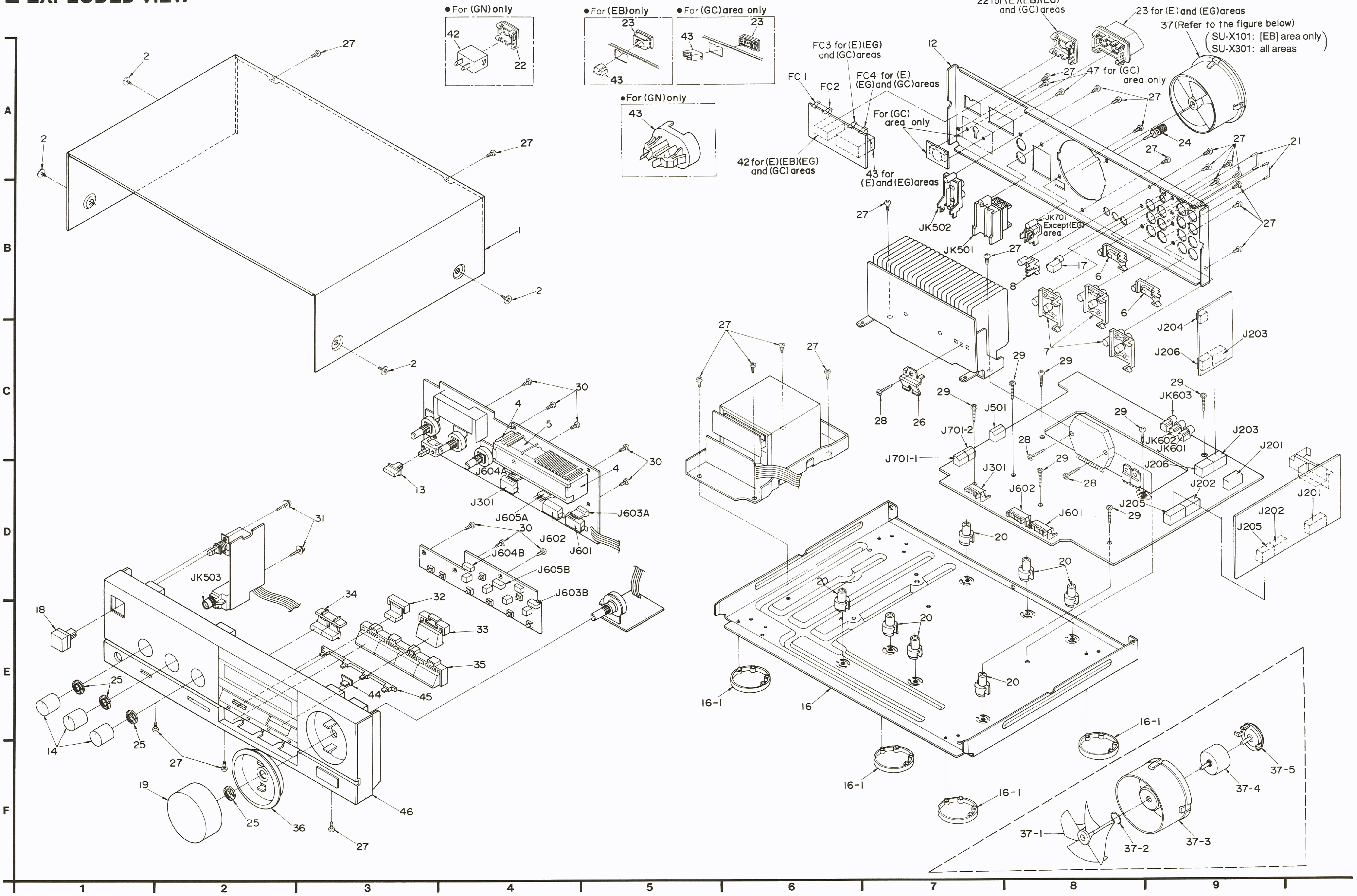
Ref. No.	Part No.	Part Name & Description	Remarks
		FUSE HOLDER(S)	
FC1, 2	SJT388	FUSE HOLDER	⚠
FC3, 4	SJT388	FUSE HOLDER	⚠(E, EG, GC)
		FUSE(S)	
F1	XBA2C08TB0	FUSE 250V T0. 8A	⚠(E, EB, EG, GN)
F1	XBA2C16TB0	FUSE 250V T1. 6A	⚠(GC)
F2	XBA2C20TB0	FUSE 250V T2. 0A	⚠(E, EG)
F2	XBA2C08TB0	FUSE 250V T0. 8A	⚠(GC)
		TRANSFORMER(S)	
T1	RTP1M5E002-V	POWER TRANSFORMER	⚠(E, EG)
T1	RTP1M5B002-V	POWER TRANSFORMER	⚠(EB, GN)
T1	RTP1M5G002-V	POWER TRANSFORMER	⚠(GC)

■ EXPLODED VIEW


●For (GN) only
42
22
●For (EB) only
23
43
●For (GC) area only
23
43
●For (GN) only
43
22 for (E)(EB)(EG) and (GC) areas
23 for (E) and (EG) areas
37 (Refer to the figure below) (SU-X101: [EB] area only SU-X301: all areas)
FC3 for (E)(EG) and (GC) areas
FC4 for (E) (EG) and (GC) areas
FC 1
FC2
12
47 for (GC) area only
For (GC) area only
42 for (E)(EB)(EG) and (GC) areas
43 for (E) and (EG) areas
24
21
JK502
JK501
JK701 Except (EG) area
17
6
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7
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28
29
J204
J203
J206
J501
J701-2
J701-1
JK603
JK602
JK601
J301
J602
J601
J205
J202
J201
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30
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J604A
J301
J605A
J602
J601
J603A
J604B
J605B
J603B
31
JK503
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44
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16
16-1
37-1
37-2
37-3
37-4
37-5
A
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D
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SU-X101

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RKM0020A-1K	CABINET	
2	RHD30007	SCREW	
4	RMN0015	FL HOLDER	
5	RMN0016	FL HOLDER	
6	SJF3068NJ	TERMINAL BOARD(2P)	
7	SJF3069N	TERMINAL BOARD(4P)	
8	RJS1A0203-0	SOCKET(3P) TO TUNER	
12	RGR0085B-A	REAR PANEL	(E)
12	RGR0085A-A	REAR PANEL	(EB)
12	RGR0085C-A	REAR PANEL	(EG)
12	RGR0085D-A	REAR PANEL	(GC)
12	RGR0085E-A	REAR PANEL	(GN)
13	RGU0080	SURROUND BUTTON	
14	RGW0028-1K	TONE KNOB	
16	RFKJUX301E-K	CHASSIS ASS'Y	
16-1	RKA0011	FOOT	
17	RJJ33TR01	REMOTE OUT	
18	SBC666-1	POWER BUTTON	
19	RGW0076	MAIN VOL KNOB	
20	SHE187-2	HOLDER	
21	SJP9205-2Y	SHORTING PIN	
22	SJS9231A	AC INLET COVER	⚠(E, EB, EG, GC)
22	SJS9234A	AC INLET COVER	⚠(GN)
23	SJS9333A	AC OUTLET COVER	⚠(E, EG)
23	SJS9332A	AC OUTLET COVER	⚠(EB)
23	SJS9233A	AC OUTLET COVER	⚠(GC)
24	SNE2123	GND SCREW	
25	SNE4021-1	NUT	
26	SUS894-1	SPRING	
27	XTBS3+8JFZ1	SCREW	
28	XTB3+16JFZ	SCREW	
29	XTB3+20JFZ	SCREW	
30	XTB3+8JFZ	SCREW	
31	XTWS3+8T	SCREW	
32	RGU0081	MUTING BUTTON	
33	RGU0091A	CD·DIRECT BUTTON	
34	RGU0092	BALANCE BUTTON	
35	RGU0106A	SELECTOR BUTTON	
36	SGX9036	VOLUME ORNAMENT	
37	SYE1128-3	FAN ASS'Y	(EB)
37-1	SHE232	FAN	(EB)
37-2	SUS271	SPRING	(EB)
37-3	SHE233	FAN CASE	(EB)
37-4	MDN-4RB4MRC	MOTOR	(EB)
37-5	SHE234	CAP	(EB)
42	SJS9231-1B	AC INLET	⚠(E, EB, EG, GC)
42	SJS9234B	AC INLET	⚠(GN)
43	SJS9333B	AC OUTLET	⚠(E, EG)
43	SJS9332B	AC OUTLET	⚠(EB)
43	SJS9233B	AC OUTLET	⚠(GC)
43	RJS1A4602	AC OUTLET	⚠(GN)
44	RGL0044	PANEL LIGHT	
45	RGL0045	PANEL LIGHT	
46	RFKGUX101E-K	FRONT PANEL	
47	XYN3+C6FZ	SCREW	(GC)
		PACKING MATERIAL	
P1	RPG0466	CARTON BOX	
P2	RPN0331	PAD	
P3	SPSD152	ACCESSORIES BOX	
P4	XZB52X60A01Z	PROTECTION COVER	
P5	RPG0587	CARTON BOX(SYSTEM)	(EB)
		ACCESSORIES	
A1	RQF0577	INSTRACTIONS MANUAL ASS'Y	(E)
A1	RQF0576	INSTRACTIONS MANUAL ASS'Y	(EB)
A1	RQF0578	INSTRACTIONS MANUAL ASS'Y	(EG)
A1	RQF0579	INSTRACTIONS MANUAL ASS'Y	(GC)
A1	RQF0580	INSTRACTIONS MANUAL ASS'Y	(GN)
A1-1	RQA0013	WARRANTY CARD	(E, EG)
A1-1	SQX7186	WARRANTY CARD	(GN)
A1-2	RQCB0169	SERVICENTOR LIST	(E, EG, GC, GN)
A1-3	RFKSUX101E-K	INSTRUCTIONS MANUAL	(E)
A1-3	RQT0484-B	INSTRUCTIONS MANUAL	(EB, GN)
A1-3	RQT0497-D	INSTRUCTIONS MANUAL	(EG)
A1-3	RQT0485-G	INSTRUCTIONS MANUAL	(GC)
A1-4	RQCS0009	CAUTION NOTE FOR FTZ	(EG)
A2	SFDAC05E03	AC CORD	⚠(E, EG)
A2	SJA188	AC CORD	⚠(EB)
A2	RJA0004	AC CORD	⚠(GC)
A2	SJA173	AC CORD	⚠(GN)
A3	SJP9215	AC PLUG	⚠(GC)

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

SU-X101

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R101, 102	ERDS2TJ391T	1/4W 390
R103, 104	ERDS2TJ224T	1/4W 220K
R105, 106	ERDS2TJ563T	1/4W 56K
R107, 108	ERDS2TJ271T	1/4W 270
R109, 110	ERDS2TJ680T	1/4W 68
R111, 112	ERDS2TJ184T	1/4W 180K
R113, 114	ERDS2TJ123T	1/4W 12K
R115, 116	ERDS2TJ563T	1/4W 56K
R151, 152	ERDS2TJ471T	1/4W 470 (EG)
R153-164	ERDS2TJ102T	1/4W 1K
R201, 202	ERDS2TJ224T	1/4W 220K
R203, 204	ERDS2TJ221T	1/4W 220
R205, 206	ERDS2TJ333T	1/4W 33K
R207, 208	ERDS2TJ224T	1/4W 220K
R209, 210	ERDS2TJ273T	1/4W 27K
R211, 212	ERDS2TJ223T	1/4W 22K
R213, 214	ERDS2TJ393T	1/4W 39K
R215, 216	ERDS2TJ103T	1/4W 10K
R217, 218	ERDS2TJ273T	1/4W 27K
R219, 220	ERDS2TJ103T	1/4W 10K
R221, 222	ERDS2TJ104T	1/4W 100K
R223-225	ERDS2TJ393T	1/4W 39K
R226	ERDS2TJ471T	1/4W 470
R227	ERDS2TJ151T	1/4W 150
R228	ERDS2TJ104T	1/4W 100K
R229	ERDS2TJ224T	1/4W 220K
R230	ERDS2TJ473T	1/4W 47K
R231	ERDS2TJ222T	1/4W 2.2K
R233, 234	ERDS2TJ822T	1/4W 8.2K
R235, 236	ERDS2TJ682T	1/4W 6.8K
R237, 238	ERDS2TJ104T	1/4W 100K
R239	ERDS2TJ471T	1/4W 470
R299	ERDS2TJ103T	1/4W 10K
R301-303	ERDS2TJ103T	1/4W 10K
R304	ERDS2TJ221T	1/4W 220
R305, 306	ERDS2TJ123T	1/4W 12K
R307, 308	ERDS2TJ822T	1/4W 8.2K
R309, 310	ERDS2TJ224T	1/4W 220K
R311, 312	ERDS2TJ102T	1/4W 1K
R313-316	ERDS2TJ563T	1/4W 56K
R317, 318	ERDS2TJ223T	1/4W 22K
R319, 320	ERDS2TJ472T	1/4W 4.7K
R321, 322	ERDS2TJ104T	1/4W 100K
R323, 324	ERDS2TJ224T	1/4W 220K
R325, 326	ERDS2TJ222T	1/4W 2.2K
R327, 328	ERDS2TJ102T	1/4W 1K
R329, 330	ERDS2TJ683T	1/4W 68K
R331-334	ERDS2TJ223T	1/4W 22K
R335, 336	ERDS2TJ392T	1/4W 3.9K
R337, 338	ERDS2TJ823T	1/4W 82K
R339, 340	ERDS2TJ222T	1/4W 2.2K
R341, 342	ERDS2TJ102T	1/4W 1K
R343	ERDS2TJ221T	1/4W 220
R344	ERDS2TJ473T	1/4W 47K
R345, 346	ERDS2TJ472T	1/4W 4.7K
R351, 352	ERDS2TJ123T	1/4W 12K
R353, 354	ERDS2TJ272T	1/4W 2.7K
R501	ERDS2TJ472T	1/4W 4.7K
R502	ERDS2TJ473T	1/4W 47K
R503	ERDS2TJ103T	1/4W 10K
R504	ERDS2TJ104T	1/4W 100K
R505, 506	ERDS2TJ332T	1/4W 3.3K
R507, 508	ERDS2TJ102T	1/4W 1K
R509, 510	ERDS2TJ393T	1/4W 39K
R511, 512	ERDS2TJ272T	1/4W 2.7K
R513, 514	ERDS2TJ393T	1/4W 39K
R515, 516	ERDS2TJ223T	1/4W 22K (EB)
R517	ERDS2TJ562T	1/4W 5.6K (EB)
R518	ERDS2TJ684T	1/4W 680K
R519	ERDS2TJ154T	1/4W 150K
R520	ERDS2TJ153T	1/4W 15K (EB)
R521	ERDS2TJ103T	1/4W 10K (EB)
R522, 523	ERDS1FVJ101T	1/2W 100 ⚠(EB)
R524	ERDS2TJ105T	1/4W 1M
R525, 526	ERDS2TJ100T	1/4W 10
R527, 528	ERDS1FVJ100T	1/2W 10 ⚠
R529	ERD25FVJ470T	1/4W 47 ⚠
R531, 532	ERG1ANJP331S	1W 330 ⚠
R533, 534	ERDS2TJ122T	1/4W 1.2K
R550	ERDS2TJ394T	1/4W 390K
R601-604	ERDS2TJ562T	1/4W 5.6K
R605, 606	ERDS2TJ103T	1/4W 10K
R607	ERDS2TJ224T	1/4W 220K
R608	ERDS2TJ223T	1/4W 22K
R609	ERDS2TJ472T	1/4W 4.7K
R610	ERDS2TJ562T	1/4W 5.6K
R612	ERDS2TJ103T	1/4W 10K
R613	ERDS2TJ224T	1/4W 220K
R626-628	ERDS2TJ223T	1/4W 22K
R629	ERDS2TJ822T	1/4W 8.2K
R630, 631	ERDS2TJ101T	1/4W 100
R634	ERDS2TJ104T	1/4W 100K
R635, 636	ERDS2TJ153T	1/4W 15K
R637, 638	ERDS2TJ473T	1/4W 47K
R640-643	ERDS2TJ471T	1/4W 470
R645	ERDS2TJ221T	1/4W 220
R647	ERDS2TJ223T	1/4W 22K
R648	ERDS2TJ104T	1/4W 100K
R650	ERDS2TJ562T	1/4W 5.6K
R651	ERDS2TJ103T	1/4W 10K
R652	ERDS2TJ182T	1/4W 1.8K
R653-655	ERDS2TJ562T	1/4W 5.6K
R656	ERDS2TJ122T	1/4W 1.2K
R657-659	ERDS2TJ562T	1/4W 5.6K
R660	ERDS2TJ102T	1/4W 1K
R661	ERDS2TJ153T	1/4W 15K
R662	ERDS2TJ472T	1/4W 4.7K
R664	ERDS2TJ102T	1/4W 1K
R665-669	ERDS2TJ223T	1/4W 22K
R670	ERDS2TJ680T	1/4W 68
R671-673	ERDS2TJ223T	1/4W 22K
R690	ERDS2TJ102T	1/4W 1K
R699	ERDS2TJ102T	1/4W 1K
R701	ERDS2TJ472T	1/4W 4.7K ⚠
R702	ERDS2TJ562T	1/4W 5.6K ⚠
R703	ERD25FVJ101T	1/4W 100 ⚠
R704	ERDS2TJ473T	1/4W 47K ⚠
R705	ERDS2TJ103T	1/4W 10K
R706, 707	ERD25FVJ4R7T	1/4W 4.7 ⚠
R708	ERDS1FVJ121T	1/2W 120 ⚠
R709	ERDS2TJ272T	1/4W 2.7K ⚠
R710	ERDS1FVJ331T	1/2W 330 ⚠
R711	ERDS2TJ153T	1/4W 15K
		CAPACITORS
C1	ECKWKC103PF2	400V 0.01U ⚠
C100	ECBT1E223ZF5	25V 0.022U
C101, 102	ECBT1H101KB5	50V 100P
C103, 104	ECBT1E103ZF5	25V 0.01U
C105, 106	ECEA1HPS3R3B	50V 3.3U
C107, 108	ECBT1H102KB5	50V 1000P
C109, 110	ECEA0JK330B	6.3V 33U
C111, 112	ECFR1E223KR	25V 0.022U
C113, 114	ECFR1E682KR	25V 6800P
C115, 116	ECEA1HPS3R3B	50V 3.3U
C151, 152	ECBT1H180J5	50V 18P (EG)
C153, 154	ECBT1H151KB5	50V 150P (EG)
C155-158	ECBT1H101KB5	50V 100P
C159, 160	ECBT1H101KB5	50V 100P (EG)
C161-168	ECBT1H101KB5	50V 100P
C200	ECBT1E223ZF5	25V 0.022U
C201, 202	ECBT1E103ZF5	25V 0.01U
C203	ECBT1H470J5	50V 47P

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Ref. No.	Part No.	Values & Remarks
C204	ECFR1E472KR	25V 4700P
C205-208	ECEA1EK3R3B	25V 3. 3U
C209	ECBT1H180J5	50V 18P
C210	ECFR1E823KR	25V 0. 082U
C211, 212	ECBT1E103ZF5	25V 0. 01U
C213	ECEA1CU101B	16V 100U
C214	ECEA1EK4R7B	25V 4. 7U
C215	ECEA1HK010B	50V 1U
C216	ECEA1CK100B	16V 10U
C217, 218	ECBT1E103ZF5	25V 0. 01U
C301, 302	ECBT1H330J5	50V 33P
C303, 304	ECBT1H150J5	50V 15P
C305-308	ECBT1H101KB5	50V 100P
C309, 310	ECBT1E103ZF5	25V 0. 01U
C311, 312	ECEA1EK3R3B	25V 3. 3U
C313, 314	ECEA1CK100B	16V 10U
C315, 316	ECEA1HPS010B	50V 1U
C317, 318	ECEA1HK3R3B	50V 3. 3U
C319, 320	ECEA1CPS100B	16V 10U
C321, 322	ECEA1HPS3R3B	50V 3. 3U
C323, 324	ECEA1HKR47B	50V 0. 47U
C325, 326	ECEA1HPS010B	50V 1U
C327, 328	ECQV1H124JZ3	50V 0. 12U
C329, 330	ECFR1E183KR	25V 0. 018U
C331, 332	ECFR1E823KR	25V 0. 082U
C333, 334	ECFR1E332KR	25V 3300P
C335, 336	ECFR1E223KR	25V 0. 022U
C337	ECEA1CU470B	16V 47U
C338, 339	ECEA1EK3R3B	25V 3. 3U
C351-354	ECBT1E103ZF5	25V 0. 01U
C399	ECBT1H470J5	50V 47P
C501, 502	ECKR1H391KB5	50V 390P
C503, 504	ECKR1H102KB5	50V 1000P
C505, 506	ECEA1CPS220B	16V 22U
C507, 508	ECCR1H150K5	50V 15P
C509-512	ECKR1H473ZF5	50V 0. 047U
C513	ECEA1CK100B	16V 10U (EB)
C514-518	ECBT1E103ZF5	25V 0. 01U
C519	ECEA1HU330B	50V 33U
C520	ECEA2AU100B	100V 10U
C521	ECEA1EK4R7B	25V 4. 7U
C523, 524	ECEA1HPS3R3B	50V 3. 3U
C551, 552	ECKR1H102ZF5	50V 1000P (EG)
C553, 554	ECBT1E223ZF5	25V 0. 022U (EG)
C555, 556	ECBT1H102KB5	50V 1000P (EG)
C560	ECBT1E103ZF5	25V 0. 01U
C601	ECEA0JU102E	6. 3V 1000U
C602	ECBT1E223ZF5	25V 0. 022U
C603	ECEA1AU470B	10V 47U
C604, 605	ECEA1VK330B	35V 33U
C607-610	ECBT1H331KB5	50V 330P
C611, 612	ECEA1HK2R2B	50V 2. 2U

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Ref. No.	Part No.	Values & Remarks
C615, 616	ECBT1H221KB5	50V 220P
C627	ECBT1E103ZF5	25V 0. 01U
C651	ECEA1CK100B	16V 10U
C652, 653	ECBT1H101KB5	50V 100P
C654, 655	ECBT1E103ZF5	25V 0. 01U
C659	ECBT1H331KB5	50V 330P
C670	ECEA0JK101B	6. 3V 100U
C695	ECBT1E103ZF5	25V 0. 01U
C696, 697	ECBT1H101KB5	50V 100P
C698	ECBT1H102KB5	50V 1000P
C699	ECBT1E223ZF5	25V 0. 022U
C701, 702	ECKR1H103ZF5	50V 0. 01U ⚠
C703, 704	ECEA1CU470B	16V 47U
C705, 706	ECEA1CK220B	16V 22U
C707, 708	ECEA1CK100B	16V 10U
C709	ECEA1HK2R2B	50V 2. 2U
C710	ECBT1E223ZF5	25V 0. 022U
C711, 712	ECEA1HU332UE	50V 3300U ⚠
C713	ECKR2H103ZU	500V 0. 01U ⚠ (E, EB)
		(GC, GN)
C713	ECQE1104KF3	100V 0. 1U ⚠ (EG)
C714	ECKR1H103ZF5	50V 0. 01U ⚠
C715, 716	ECEA1VU330B	35V 33U
C751-753	ECBT1E223ZF5	25V 0. 022U

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■ REPLACEMENT PARTS LIST (for SU-X301)

Notes : * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

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Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC101	AN6558F	IC, EQ AMP	
IC201	TC9164N	IC, INPUT SELECTOR	
IC202	AN6552F	IC, PHASE SHIFT	
IC203	AN6554F	IC, SURROUND AMP	
IC301	TC9177P	IC, ELECTRONIC VOLUME	
IC302, 303	AN6552F	IC, BUFFER AMP	
IC304	AN6558F	IC, TONE AMP	
IC501	SVI3102B	IC, POWER AMP	⚠
IC601	LC6554D-3230	IC, MICRO COMPUTER	
IC602	MN4030B	IC, LOGIC	
IC603	MN4013B	IC, LOGIC	
IC701	AN78L06	IC, REGULATOR	
		TRANSISTOR(S)	
Q201	2SA1309AQSTA	TRANSISTOR	
Q202, 203	2SD1450QRSTA	TRANSISTOR	
Q301, 302	2SC3312RSTA	TRANSISTOR	
Q501, 502	2SC3114STUTA	TRANSISTOR	
Q503, 504	2SA1309AQSTA	TRANSISTOR	
Q505	2SC3311AQSTA	TRANSISTOR	
Q601	2SA1309AQSTA	TRANSISTOR	
Q602, 603	UN4211TA	TRANSISTOR	
Q604	2SC3311AQSTA	TRANSISTOR	
Q605	UN4212TA	TRANSISTOR	
Q607	2SC3311AQSTA	TRANSISTOR	
Q609, 610	UN4211TA	TRANSISTOR	
Q611	UN4111TA	TRANSISTOR	
Q612-614	UN4211TA	TRANSISTOR	
Q651	2SC3311AQSTA	TRANSISTOR	
Q701	UN4211TA	TRANSISTOR	
Q702	2SB621AQRSTA	TRANSISTOR	⚠
Q703	2SD1761DEF	TRANSISTOR	⚠
Q704	2SB1187DEF	TRANSISTOR	⚠
		DIODE(S)	
D301-304	MA165TA	DIODE	
D501, 502	MA167TA	DIODE	
D503	MA165TA	DIODE	
D504	MA4051MTA	DIODE	
D505	MA165TA	DIODE	
D601	1SS291TA	DIODE	
D606-611	MA165TA	DIODE	

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Ref. No.	Part No.	Part Name & Description	Remarks
D613	MA4056MTA	DIODE	
D614	LN873RP-LS	LED	
D614A	MA165TA	DIODE	
D615	LN873RP-LS	LED	
D616	LD-001VR	LED	
D617, 618	LN873RP-LS	LED	
D620	MA165TA	DIODE	
D651	MA4051MTA	DIODE	
D652	MA4047MTA	DIODE	
D653	MA165TA	DIODE	
D701, 702	MA4150MTA	DIODE	
D703	MA165TA	DIODE	
D704, 705	MA167TA	DIODE	⚠
D707-710	P300DLF	DIODE	⚠
D713	MA4180MTA	DIODE	
		VARIABLE RESISTOR(S)	
VR301	EWC2XAF25C15	V. R, BASS	
VR302	EWC2XAF25C15	V. R, TREBLE	
VR303	EWCY6AF25C54	V. R, SUPER BASS	
VR601	EVQWX2F2045B	V. R, MAIN VOLUME	
		COMPONENT COMBINATION(S)	
Z601	EXFP8331MW	COMPONENT COMBINATION	
		COIL(S)	
L501, 502	SLQY07G-40	COIL	
L551, 552	SLQY07G-40	COIL	(EG)
L601	RLQZP101KT-Y	COIL	
L602	RLQZP1R2KT-Y	COIL	
L603, 604	ELEXT330KA9	COIL	
L617-620	RLQZP101KT-Y	COIL	
L651	RLQZP101KT-Y	COIL	
L699	RLQZP101KT-Y	COIL	
L751	RLQZP101KT-Y	COIL	
L752	ELEXT330KA9	COIL	
		OSCILLATOR(S)	
X601	EF0GC3004T4	OSCILLATOR	
		DISPLAY TUBE	
FL601	RSL0013-F	DISPLAY TUBE	

Ref. No.	Part No.	Part Name & Description	Remarks
		SWITCH(ES)	
S1	ESB8249V	POWER	⚠
S2	ESE37263	VOLTAGE SELECTOR	⚠(GC)
S601A	SSH1198	SURROUND	
S601	EVQ21405R	INPUT SELECTOR, PHONO	
S602	EVQ21405R	INPUT SELECTOR, TUNER	
S603	EVQ21405R	INPUT SELECTOR, AUX	
S604	EVQ21405R	INPUT SELECTOR, TAPE	
S607	EVQ21405R	BALANCE, L	
S608	EVQ21405R	BALANCE, R	
S609	EVQ21405R	MUTING	
S610	EVQ21405R	INPUT SELECTOR, CD	
		JACK(S)	
J201	RJT057W007	CONNECTOR(7P)	
J201	RJU057W007	SOCKET(7P) MAIN P.C.B.	
J202	RJT057W007	CONNECTOR(7P)	
J202	RJU057W007	SOCKET(7P) MAIN P.C.B.	
J203	RJT057W007	CONNECTOR(7P)	
J203	RJU057W007	SOCKET(7P) MAIN P.C.B.	
J204	SJT3215	CONNECTOR(2P)	
J205	RJT057W007	CONNECTOR(7P)	
J205	RJU057W007	SOCKET(7P) MAIN P.C.B.	
J206	RJT057W007	CONNECTOR(7P)	
J206	RJU057W007	SOCKET(7P) MAIN P.C.B.	
J301	RJT003K008M1	CONNECTOR(8P) MAIN P.C.B.	
J301	RJU003K008M1	SOCKET(8P)	
J501	RJS1A1705	CONNECTOR(5P)	
J601	RJT003K010M1	CONNECTOR(10P) MAIN P.C.B.	
J601	RJU003K010M1	SOCKET(10P)	
J602	RJT003K010M1	CONNECTOR(10P) MAIN P.C.B.	
J602	RJU003K010M1	SOCKET(10P)	
J701-1, 2	RJS1A1704	CONNECTOR(4P)	
J603A	SJT30549BB	CONNECTOR(5P)	
J604A	SJT30549BB	CONNECTOR(5P)	
J605A	SJT30549BB	CONNECTOR(5P)	
J603B	SJS50581BB	SOCKET(5P)	
J604B	SJS50581BB	SOCKET(5P)	
J605B	SJS50581BB	SOCKET(5P)	
JK501	RJR0054	SP TERMINAL	
JK502	SJF3068-4N	SURROUND SP TERMINAL	
JK503	RJJ67TS02	H.P JACK	
JK601	RJJ33T01	SYNCHRO, TAPE	
JK602	RJJ33T01	SYNCHRO, CD	
JK603	RJJ33T01	SYNCHRO, TURNTABLE	
JK701	RJS1A0203-0	CONNECTOR(3P), TO DECK	(E, EB, GC, GN)
		FUSE HOLDER(S)	

Ref. No.	Part No.	Part Name & Description	Remarks
FC1, 2	SJT388	FUSE HOLDER	⚠
FC3, 4	SJT388	FUSE HOLDER	⚠(E, EG, GC)
		FUSE(S)	
F1	XBA2C10TB0	FUSE 250V T1.0A	⚠(E, EG, EB, GN)
F1	XBA2C20TB0	FUSE 250V T2.0A	⚠(GC)
F2	XBA2C20TB0	FUSE 250V T2.0A	⚠(E, EG)
F2	XBA2C10TB0	FUSE 250V T1.0A	⚠(GC)
		TRANSFORMER(S)	
T1	RTP1M5E001-V	POWER TRANSFORMER	⚠(E, EG)
T1	RTP1M5B001-V	POWER TRANSFORMER	⚠(EB, GN)
T1	RTP1M5G001-V	POWER TRANSFORMER	⚠(GC)

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
		(Exploded view on pages 27, 28.)	
1	RKM0020A-1K	CABINET	
2	RHD30007	SCREW	
4	RMN0015	FL HOLDER	
5	RMN0016	FL HOLDER	
6	SJF3068NJ	TERMINAL BOARD(2P)	
7	SJF3069N	TERMINAL BOARD(4P)	
8	RJS1A0203-0	SOCKET(3P) TO TUNER	
12	RGR0085F-A	REAR PANEL	(E)
12	RGR0085A-B	REAR PANEL	(EB)
12	RGR0085G-A	REAR PANEL	(EG)
12	RGR0085H-A	REAR PANEL	(GC)
12	RGR0085J-A	REAR PANEL	(GN)
13	RGU0080	SURROUND BUTTON	
14	RGW0028-1K	TONE KNOB	
16	RFKJUX301E-K	CHASSIS ASS'Y	
16-1	RKA0011	FOOT	
17	RJJ33TR01	REMOTE OUT	
18	SBC666-1	POWER BUTTON	
19	RGW0076	MAIN VOL KNOB	
20	SHE187-2	HOLDER	
21	SJP9205-2Y	SHORTING PIN	
22	SJS9231A	AC INLET COVER	(E, EB, EG, GC)
22	SJS9234A	AC INLET COVER	(GN)
23	SJS9333A	AC OUTLET COVER	(E, EG)
23	SJS9332A	AC OUTLET COVER	(EB)
23	SJS9233A	AC OUTLET COVER	(GC)
24	SNE2123	GND SCREW	
25	SNE4021-1	NUT	
26	SUS894-1	SPRING	
27	XTBS3+8JFZ1	SCREW	
28	XTB3+16JFZ	SCREW	
29	XTB3+20JFZ	SCREW	
30	XTB3+8JFZ	SCREW	
31	XTWS3+8T	SCREW	
32	RGU0081	MUTING BUTTON	
33	RGU0091A	CD·DIRECT BUTTON	
34	RGU0092	BALANCE BUTTON	
35	RGU0106A	SELECTOR BUTTON	
36	SGX9036	VOLUME ORNAMENT	
37	SYE1128-3	FAN ASS'Y	
37-1	SHE232	FAN	
37-2	SUS271	SPRING	
37-3	SHE233	FAN CASE	
37-4	MDN-4RB4MRC	MOTOR	
37-5	SHE234	CAP	
42	SJS9231-1B	AC INLET	⚠(E, EB, EG, GC)
42	SJS9234B	AC INLET	⚠(GN)
43	SJS9333B	AC OUTLET	⚠(E, EG)
43	SJS9332B	AC OUTLET	⚠(EB)

Ref. No.	Part No.	Part Name & Description	Remarks
43	SJS9233B	AC OUTLET	⚠(GC)
43	RJS1A4602	AC OUTLET	⚠(GN)
44	RGL0044	PANEL LIGHT	
45	RGL0045	PANEL LIGHT	
46	RFKGUX301E-K	FRONT PANEL	
47	XYN3+C6FZ	SCREW	(GC)
		PACKING MATERIAL	
P1	RPG0467	CARTON BOX	
P2	RPN0331	PAD	
P3	SPSD152	ACCESSORIES BOX	
P4	XZB52X60A01Z	PROTECTION COVER	
P5	RPG0588	CARTON BOX(SYSTEM)	(EB)
		ACCESSORIES	
A1	RQF0582	INSTRUCTIONS MANUAL ASS'Y	(E)
A1	RQF0581	INSTRUCTIONS MANUAL ASS'Y	(EB)
A1	RQF0583	INSTRUCTIONS MANUAL ASS'Y	(EG)
A1	RQF0584	INSTRUCTIONS MANUAL ASS'Y	(GC)
A1	RQF0585	INSTRUCTIONS MANUAL ASS'Y	(GN)
A1-1	RQA0013	WARRANTY CARD	(E, EG)
A1-1	SQX7186	WARRANTY CARD	(GN)
A1-2	RQCB0169	SERVICENTOR LIST	(E, EG, GC, GN)
A1-3	RFKSUX301E-K	INSTRUCTIONS MANUAL	(E)
A1-3	RQT0472-B	INSTRUCTIONS MANUAL	(EB, GN)
A1-3	RQT0475-D	INSTRUCTIONS MANUAL	(EG)
A1-3	RQT0473-G	INSTRUCTIONS MANUAL	(GC)
A1-4	RQCS0009	CAUTION NOTE FOR FTZ	(EG)
A2	SFDAC05E03	AC CORD	⚠(E, EG)
A2	SJA188	AC CORD	⚠(EB)
A2	RJA0004	AC CORD	⚠(GC)
A2	SJA173	AC CORD	⚠(GN)
A3	SJP9215	AC PLUG	⚠(GC)

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) , 1M=1,000k (OHM)

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Ref. No.	Part No.	Values & Remarks
		RESISTORS
R101, 102	ERDS2TJ391T	1/4W 390
R103, 104	ERDS2TJ224T	1/4W 220K
R105, 106	ERDS2TJ563T	1/4W 56K
R107, 108	ERDS2TJ271T	1/4W 270
R109, 110	ERDS2TJ680T	1/4W 68
R111, 112	ERDS2TJ184T	1/4W 180K
R113, 114	ERDS2TJ123T	1/4W 12K
R115, 116	ERDS2TJ563T	1/4W 56K
R151, 152	ERDS2TJ471T	1/4W 470 (EG)
R153-164	ERDS2TJ102T	1/4W 1K
R201, 202	ERDS2TJ224T	1/4W 220K
R203, 204	ERDS2TJ221T	1/4W 220
R205, 206	ERDS2TJ333T	1/4W 33K
R207, 208	ERDS2TJ224T	1/4W 220K
R209, 210	ERDS2TJ273T	1/4W 27K
R211, 212	ERDS2TJ223T	1/4W 22K
R213, 214	ERDS2TJ393T	1/4W 39K
R215, 216	ERDS2TJ103T	1/4W 10K
R217, 218	ERDS2TJ273T	1/4W 27K
R219, 220	ERDS2TJ103T	1/4W 10K
R221, 222	ERDS2TJ104T	1/4W 100K
R223-225	ERDS2TJ393T	1/4W 39K
R226	ERDS2TJ471T	1/4W 470
R227	ERDS2TJ151T	1/4W 150
R228	ERDS2TJ104T	1/4W 100K
R229	ERDS2TJ224T	1/4W 220K
R230	ERDS2TJ473T	1/4W 47K
R231	ERDS2TJ222T	1/4W 2.2K
R233, 234	ERDS2TJ822T	1/4W 8.2K
R235, 236	ERDS2TJ682T	1/4W 6.8K
R237, 238	ERDS2TJ104T	1/4W 100K
R239	ERDS2TJ471T	1/4W 470
R299	ERDS2TJ103T	1/4W 10K
R301-303	ERDS2TJ103T	1/4W 10K
R304	ERDS2TJ221T	1/4W 220
R305, 306	ERDS2TJ123T	1/4W 12K
R307, 308	ERDS2TJ822T	1/4W 8.2K
R309, 310	ERDS2TJ224T	1/4W 220K
R311, 312	ERDS2TJ102T	1/4W 1K
R313-316	ERDS2TJ563T	1/4W 56K
R317, 318	ERDS2TJ223T	1/4W 22K
R319, 320	ERDS2TJ472T	1/4W 4.7K
R321, 322	ERDS2TJ104T	1/4W 100K
R323, 324	ERDS2TJ224T	1/4W 220K
R325, 326	ERDS2TJ222T	1/4W 2.2K
R327, 328	ERDS2TJ102T	1/4W 1K
R329, 330	ERDS2TJ683T	1/4W 68K
R331-334	ERDS2TJ223T	1/4W 22K
R335, 336	ERDS2TJ392T	1/4W 3.9K
R337, 338	ERDS2TJ823T	1/4W 82K
R339, 340	ERDS2TJ222T	1/4W 2.2K
R341, 342	ERDS2TJ102T	1/4W 1K
R343	ERDS2TJ221T	1/4W 220
R344	ERDS2TJ473T	1/4W 47K
R345, 346	ERDS2TJ472T	1/4W 4.7K
R351, 352	ERDS2TJ123T	1/4W 12K
R353, 354	ERDS2TJ272T	1/4W 2.7K
R501	ERDS2TJ472T	1/4W 4.7K
R502	ERDS2TJ473T	1/4W 47K
R503	ERDS2TJ103T	1/4W 10K
R504	ERDS2TJ104T	1/4W 100K
R505, 506	ERDS2TJ332T	1/4W 3.3K
R507, 508	ERDS2TJ102T	1/4W 1K
R509, 510	ERDS2TJ393T	1/4W 39K
R511, 512	ERDS2TJ272T	1/4W 2.7K
R513, 514	ERDS2TJ393T	1/4W 39K
R515, 516	ERDS2TJ223T	1/4W 22K
R517	ERDS2TJ562T	1/4W 5.6K
R518	ERDS2TJ684T	1/4W 680K
R519	ERDS2TJ154T	1/4W 150K
R520	ERDS2TJ153T	1/4W 15K
R521	ERDS2TJ103T	1/4W 10K
R522, 523	ERDS1FVJ101T	1/2W 100 ⚠
R524	ERDS2TJ105T	1/4W 1M
R525, 526	ERDS2TJ100T	1/4W 10
R527, 528	ERDS1FVJ100T	1/2W 10 ⚠
R529	ERD25FVJ470T	1/4W 47 ⚠
R531, 532	ERG1ANJP331S	1W 330 ⚠
R533, 534	ERDS2TJ122T	1/4W 1.2K
R550	ERDS2TJ394T	1/4W 390K
R601-604	ERDS2TJ562T	1/4W 5.6K
R605, 606	ERDS2TJ103T	1/4W 10K
R607	ERDS2TJ224T	1/4W 220K
R608	ERDS2TJ223T	1/4W 22K
R609	ERDS2TJ472T	1/4W 4.7K
R610	ERDS2TJ562T	1/4W 5.6K
R612	ERDS2TJ103T	1/4W 10K
R613	ERDS2TJ224T	1/4W 220K
R626-628	ERDS2TJ223T	1/4W 22K
R629	ERDS2TJ822T	1/4W 8.2K
R630, 631	ERDS2TJ101T	1/4W 100
R634	ERDS2TJ104T	1/4W 100K
R635, 636	ERDS2TJ153T	1/4W 15K
R637, 638	ERDS2TJ473T	1/4W 47K
R640-643	ERDS2TJ471T	1/4W 470
R645	ERDS2TJ221T	1/4W 220
R647	ERDS2TJ223T	1/4W 22K
R648	ERDS2TJ104T	1/4W 100K
R650	ERDS2TJ562T	1/4W 5.6K
R651	ERDS2TJ103T	1/4W 10K
R652	ERDS2TJ182T	1/4W 1.8K
R653-655	ERDS2TJ562T	1/4W 5.6K
R656	ERDS2TJ122T	1/4W 1.2K
R657-659	ERDS2TJ562T	1/4W 5.6K
R660	ERDS2TJ102T	1/4W 1K
R661	ERDS2TJ153T	1/4W 15K
R662	ERDS2TJ472T	1/4W 4.7K
R664	ERDS2TJ102T	1/4W 1K
R665-669	ERDS2TJ223T	1/4W 22K
R670	ERDS2TJ680T	1/4W 68
R671-673	ERDS2TJ223T	1/4W 22K
R690	ERDS2TJ102T	1/4W 1K
R699	ERDS2TJ102T	1/4W 1K
R701	ERDS2TJ472T	1/4W 4.7K ⚠
R702	ERDS2TJ562T	1/4W 5.6K ⚠
R703	ERD25FVJ101T	1/4W 100 ⚠
R704	ERDS2TJ473T	1/4W 47K ⚠
R705	ERDS2TJ103T	1/4W 10K
R706, 707	ERD25FVJ4R7T	1/4W 4.7 ⚠
R708	ERDS1FVJ121T	1/2W 120 ⚠
R709	ERDS2TJ272T	1/4W 2.7K ⚠
R710	ERDS1FVJ331T	1/2W 330 ⚠
R711	ERDS2TJ153T	1/4W 15K
		CAPACITORS
C1	ECKWKC103PF2	400V 0.01U ⚠
C100	ECBT1E223ZF5	25V 0.022U
C101, 102	ECBT1H101KB5	50V 100P
C103, 104	ECBT1E103ZF5	25V 0.01U
C105, 106	ECEA1HPS3R3B	50V 3.3U
C107, 108	ECBT1H102KB5	50V 1000P
C109, 110	ECEA0JK330B	6.3V 33U
C111, 112	ECFR1E223KR	25V 0.022U
C113, 114	ECFR1E682KR	25V 6800P
C115, 116	ECEA1HPS3R3B	50V 3.3U
C151, 152	ECBT1H180J5	50V 18P (EG)
C153, 154	ECBT1H151KB5	50V 150P (EG)
C155-158	ECBT1H101KB5	50V 100P
C159, 160	ECBT1H101KB5	50V 100P (EG)
C161-168	ECBT1H101KB5	50V 100P
C200	ECBT1E223ZF5	25V 0.022U
C201, 202	ECBT1E103ZF5	25V 0.01U
C203	ECBT1H470J5	50V 47P
C204	ECFR1E472KR	25V 4700P
C205-208	ECEA1EK3R3B	25V 3.3U
C209	ECBT1H180J5	50V 18P
C210	ECFR1E823KR	25V 0.082U
C211, 212	ECBT1E103ZF5	25V 0.01U
C213	ECEA1CU101B	16V 100U
C214	ECEA1EK4R7B	25V 4.7U
C215	ECEA1HK010B	50V 1U
C216	ECEA1CK100B	16V 10U
C217, 218	ECBT1E103ZF5	25V 0.01U
C301, 302	ECBT1H330J5	50V 33P
C303, 304	ECBT1H150J5	50V 15P
C305-308	ECBT1H101KB5	50V 100P
C309, 310	ECBT1E103ZF5	25V 0.01U
C311, 312	ECEA1EK3R3B	25V 3.3U
C313, 314	ECEA1CK100B	16V 10U
C315, 316	ECEA1HPS010B	50V 1U
C317, 318	ECEA1HK3R3B	50V 3.3U
C319, 320	ECEA1CPS100B	16V 10U
C321, 322	ECEA1HPS3R3B	50V 3.3U
C323, 324	ECEA1HKR47B	50V 0.47U
C325, 326	ECEA1HPS010B	50V 1U
C327, 328	ECQV1H124JZ3	50V 0.12U
C329, 330	ECFR1E183KR	25V 0.018U
C331, 332	ECFR1E823KR	25V 0.082U
C333, 334	ECFR1E332KR	25V 3300P
C335, 336	ECFR1E223KR	25V 0.022U
C337	ECEA1CU470B	16V 47U
C338, 339	ECEA1EK3R3B	25V 3.3U
C351-354	ECBT1E103ZF5	25V 0.01U
C399	ECBT1H470J5	50V 47P
C501, 502	ECKR1H391KB5	50V 390P
C503, 504	ECKR1H102KB5	50V 1000P
C505, 506	ECEA1CPS220B	16V 22U
C507, 508	ECCR1H150K5	50V 15P
C509-512	ECKR1H473ZF5	50V 0.047U
C513	ECEA1CK100B	16V 10U
C514-518	ECBT1E103ZF5	25V 0.01U
C519	ECEA1HU330B	50V 33U
C520	ECEA2AU100B	100V 10U
C521	ECEA1EK4R7B	25V 4.7U
C523, 524	ECEA1HPS3R3B	50V 3.3U
C551, 552	ECKR1H102ZF5	50V 1000P (EG)
C553, 554	ECBT1E223ZF5	25V 0.022U (EG)
C555, 556	ECBT1H102KB5	50V 1000P (EG)
C560	ECBT1E103ZF5	25V 0.01U
C601	ECEA0JU102E	6.3V 1000U
C602	ECBT1E223ZF5	25V 0.022U
C603	ECEA1AU470B	10V 47U
C604, 605	ECEA1VK330B	35V 33U
C607-610	ECBT1H331KB5	50V 330P
C611, 612	ECEA1HK2R2B	50V 2.2U
C615, 616	ECBT1H221KB5	50V 220P
C627	ECBT1E103ZF5	25V 0.01U
C651	ECEA1CK100B	16V 10U
C652, 653	ECBT1H101KB5	50V 100P
C654, 655	ECBT1E103ZF5	25V 0.01U
C659	ECBT1H331KB5	50V 330P
C670	ECEA0JK101B	6.3V 100U
C695	ECBT1E103ZF5	25V 0.01U
C696, 697	ECBT1H101KB5	50V 100P
C698	ECBT1H102KB5	50V 1000P
C699	ECBT1E223ZF5	25V 0.022U
C701, 702	ECKR1H103ZF5	50V 0.01U ⚠
C703, 704	ECEA1CU470B	16V 47U
C705, 706	ECEA1CK220B	16V 22U
C707, 708	ECEA1CK100B	16V 10U
C709	ECEA1HK2R2B	50V 2.2U
C710	ECBT1E223ZF5	25V 0.022U
C711, 712	ECEA1HU332UE	50V 3300U ⚠
C713	ECKR2H103ZU	500V 0.01U ⚠ (E, EB)
		(GC, GN)
C713	ECQE1104KF3	100V 0.1U ⚠ (EG)
C714	ECKR1H103ZF5	50V 0.01U ⚠
C715, 716	ECEA1VU330B	35V 33U
C751-753	ECBT1E223ZF5	25V 0.022U

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